INSTALLATION RESTORATION PROGRAM (IRP)

PHASE II STAGE 2 INVESTIGATION

VOLUME IV APPENDICES K-Q

127th FIGHTER WING MICHIGAN AIR NATIONAL GUARD SELFRIDGE AIR NATIONAL GUARD BASE MT. CLEMENS, MICHIGAN

DECEMBER 1996



Prepared For
ANGRC/CEVR
ANDREWS AFB, MARYLAND

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden. to Washington readquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 100 N.W. Loop 410 100 N.W. Loop 410 101 N.W. Loop 410 102 N.W. Loop 410 103 N.W. Loop 410 104 N.W. Loop 410 105 N.W. Loop 410 105 N.W. Loop 410 106 N.W. Loop 410 107 National Guard Readiness Center/CEVR 108 PSPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 108 PSPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 119 NOTE: A SPONSORING MONITORING AGENCY NAME(S) AND ADDRESS(ES) 110 SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 111 SUPPLEMENTARY NOTES 112 DISTRIBUTION/AVAILABILITY STATEMENT 112 DISTRIBUTION CODE 113 ABSTRACT (Maximum 200 words) 114 In investigation was performed on eight sites at Solfridge Air National Guard Base; Site 1 - Southwest and fill; Site 2 - Tire Training Area 2, Site 3 - Tire Training Area 1, Site 4 - West Raini, Site 5 - Tucker reck Landfill, Site 6 - Northwest Landfill, Site 7 - Bast Ramp, and Site 8 - Base Coal Storage Pile (olume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms f Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Orrespondence. 14. Subject Terms 15. Number of Pages 16. PREFORMENT Number of Pages 17. Security Classification of First Pages 18. SECURITY CLASSIFICATION of Pages Priority Model, and Q - University Classification of Pages Pages Pages Pages Priority Model, and Q - Orrespondence. 18. SECURITY CLASSIFICATION of Pages Pa	1. AGENCY USE ONLY (Leave bla	nk) 2. REPORT DAT	E	3. REPORT TYPE A	ID DATES	COVERED
27th Fighter Wing, Selfridge ANGB, Mt. Clemens, Michigan 6. AUTHOR(S) (AA 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 8. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 8. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 9. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 9. SPONSORMIG (MONITORING AGENCY NAME(S) AND ADDRESS(ES) 9. SPONSORMIG (MONITORING AGENCY NAME(S) AND ADDRESS(ES) 10. SPONSORMIG (MONITORING AGENCY NAME(S) AND ADDRESS(ES) 11. SUPPLEMENTARY NOTES 11. SUPPLEMENTARY NOTES 12. DISTRIBUTION (AVAILABILITY STATEMENT) 12. DISTRIBUTION (AVAILABILITY STATEMENT) 13. ABSTRACT (Maximum 200 words) 14. ABSTRACT (Maximum 200 words) 15. ALBERT (Maximum 200 words) 16. SPONSORMIG (MONITORING AGENCY NAME(S) AND ADDRESS(ES) 17. SUPPLEMENTARY NOTES 18. DISTRIBUTION (AVAILABILITY STATEMENT) 19. ABSTRACT (Maximum 200 words) 19. ARSTRACT (Maximum 200 words) 19. ABSTRACT (Maximum 200 words) 19. ABSTRACT (Maximum 200 words) 19. ALBERT (CAUSING)	4. TITLE AND SUBTITLE	Decembe	r 1990	Phase II Stage	2 5. FUNE	HNG NUMBERS
6. AUTHOR(S) 1/A 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 10. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 11. SUPPLEMENTARY NOTES 11. SUPPLEMENTARY NOTES 12. DISTRIBUTION / AVAILABILITY STATEMENT 12. DISTRIBUTION / AVAILABILITY STATEMENT 12. DISTRIBUTION / AVAILABILITY STATEMENT 13. ASSTRACT (Maximum 200 words) 14. ASSTRACT (Maximum 200 words) 15. ACCURATE ORGANIZATION Tables, M. Domessies (K. Sampling Chain - of - Custody Documentation, L. Data alidation Tables, M. Domestic Well Logs, N Histograms of Analyses for Soil Samples, O Histograms 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. SAREPTEGGEPO 16. SAREPTEGGEPO 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 11. SECURITY CLASSIFICATION 12. SECURITY CLASSIFICATION 13. OF REPORT NUMBER 14. SUBJECT TERMS 15. NUMBER OF PAGES 15. NUMBER OF PAGES 16. SAREPTEGGEPO 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. OF REPORT 10. OF REPORT 11. SUBJECT TERMS 15. NUMBER OF PAGES					DAHA	.90-91-D-0002/13
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 10. N.W. Loop 410 10. N.W. Loop 410 10. N.W. Loop 410 10. N.W. Loop 410 10. SPONSORING AGENCY NAME(S) AND ADDRESS(ES) 10. SPONSORING AMONITORING AGENCY NAME(S) AND ADDRESS(ES) 10. SPONSORING AMONITORING AGENCY NAME(S) AND ADDRESS(ES) 11. SUPPLEMENTARY NOTES 12. DISTRIBUTION /AVAILABILITY STATEMENT 12. DISTRIBUTION /AVAILABILITY STATEMENT 13. ABSTRACT (Maximum 200 words) 14. SIED 2 Fire Training Area 2, Site 3 Fire Training Area 1, Site 4 West Ramp. Site 3 Tracker reek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile. Olume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms Fanalyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - orrespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. SPECERORY 16. SPECERORY 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 11. SECURITY CLASSIFICATION 12. OLIMITATION OF ABSTRACT 13. SECURITY CLASSIFICATION 14. SECURITY CLASSIFICATION 15. SECURITY CLASSIFICATION 16. SECURITY CLASSIFICATION 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 11. SECURITY CLASSIFICATION 12. CERTAIN SECURITY CLASSIFICATION 13. SECURITY CLASSIFICATION 14. SECURITY CLASSIFICATION 15. SECURITY CLASSIFICATION 16. SECURITY CLASSIFICATION 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 11. SECURITY CLASSIFICATION 12. SECURITY CLASSIFICATION 13. SECURITY CLASSIFICATION 14. SECURITY CLASSIFICATION 15. SECURITY	0 0	ANGB, Mt. Cleme	ns, Michigar	1		
8. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 100 N.W. Loop 410 100 N.W. Loop 410 101 N.W. Loop 410 212 A Antonio, Texas 78229-4253 213 An Antonio, Texas 78229-4253 214 S. SPONSORING (MONITORING AGENCY NAME(S) AND ADDRESS(ES) 215 SPONSORING (MONITORING AGENCY NAME(S) AND ADDRESS(ES) 216 SPONSORING (MONITORING AGENCY NAME(S) AND ADDRESS(ES) 217 AGENCY REPORT NUMBER 218 DISTRIBUTION (AVAILABILITY STATEMENT 219 DISTRIBUTION (AVAILABILITY STATEMENT 219 DISTRIBUTION (AVAILABILITY STATEMENT 210 DISTRIBUTION (AVAILABILITY STATEMENT 211 SUPPLEMENTARY NOTES 212 DISTRIBUTION (AVAILABILITY STATEMENT 213 ABSTRACT (Maximum 200 words) 214 In investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1 - Southwest and fill, Site 6 - Northwest Landfill, Site 7 - Bast Ramp, and Site 8 - Base Coal Storage Pile (Jume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data adiadation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Orrespondence. 214 SUBJECT TERMS 215 NUMBER OF PAGES 216 ARRETCEOOF! U 217 SECURITY CLASSIFICATION 218 SECURITY CLASSIFICATION 219 SECURITY CLASSIFICATION 210 CLIMITATION OF ABSTRACT 210 CLIMITATION OF ABSTRACT 210 CLIMITATION OF ABSTRACT 211 SECURITY CLASSIFICATION 212 OF THE PAGE 213 DISTRIBUTION CODE 214 SECURITY CLASSIFICATION 215 SECURITY CLASSIFICATION 216 SECURITY CLASSIFICATION 217 SECURITY CLASSIFICATION 218 SECURITY CLASSIFICATION 219 SECURITY CLASSIFICATION 210 CLIMITATION OF ABSTRACT 210 CLIMITATION OF ABSTRACT 211 SECURITY CLASSIFICATION 212 SECURITY CLASSIFICATION 213 OF THE PAGE 215 SECURITY CLASSIFICATION 216 SECURITY CLASSIFICATION 217 OF REDORM 218 SECURITY CLASSIFICATION 219 SECURITY CLASSIFICATION 210 CLIMITATION OF ABSTRACT 210 CLIMITATION OF ABSTRACT	6. AUTHOR(S)	;			1	
perational Technologies Corporation 100 N.W. Loop 410 uite 230 an Antonio. Toxus 78229-4253 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 10. SPONSORING/MONITORING AGENCY REPORT NUMBER 11 National Guard Readiness Center/CEVR 11 SUPPLEMENTARY NOTES 11 SUPPLEMENTARY NOTES 12 DISTRIBUTION/AVAILABILITY STATEMENT 12 DISTRIBUTION/AVAILABILITY STATEMENT 13. ABSTRACT (Maximum 200 words) 14. Investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1. Southwest, and full, Site 2 Fire Training Area 1, Site 4 West Ramp, Site 5 Tuckers reek Landfill, Site 6 · Northwest Landfill, Site 7 · East Ramp, and Site 8 · Base Coal Storage Pile. 15. Olume IV contains the following Appendices; K · Sampling Chain · of · Custody Documentation, L · Data alidation Tables, M · Domestic Well Logs, N · Histograms of Analyses for Sid Samples, O · Histograms f Analyses for Groundwater and Surface Water Samples, P · Defense Priority Model, and Q · orrespondence. 14. Subject Terms 15. Number of Pages 15. Number of Pages 16. ABREFCEOSE** 16. ABREFCEOSE** 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 20. LIMITATION OF ABSTRACT OF REPORT	ī/A	; }				
perational Technologies Corporation 100 N.W. Loop 410 uite 230 an Antonio. Toxus 78229-4253 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 10. SPONSORING/MONITORING AGENCY REPORT NUMBER 11 National Guard Readiness Center/CEVR 11 SUPPLEMENTARY NOTES 11 SUPPLEMENTARY NOTES 12 DISTRIBUTION/AVAILABILITY STATEMENT 12 DISTRIBUTION/AVAILABILITY STATEMENT 13. ABSTRACT (Maximum 200 words) 14. Investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1. Southwest, and full, Site 2 Fire Training Area 1, Site 4 West Ramp, Site 5 Tuckers reek Landfill, Site 6 · Northwest Landfill, Site 7 · East Ramp, and Site 8 · Base Coal Storage Pile. 15. Olume IV contains the following Appendices; K · Sampling Chain · of · Custody Documentation, L · Data alidation Tables, M · Domestic Well Logs, N · Histograms of Analyses for Sid Samples, O · Histograms f Analyses for Groundwater and Surface Water Samples, P · Defense Priority Model, and Q · orrespondence. 14. Subject Terms 15. Number of Pages 15. Number of Pages 16. ABREFCEOSE** 16. ABREFCEOSE** 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 20. LIMITATION OF ABSTRACT OF REPORT						
100 N.W. Loop 410 wite 230 an Antonio, Texas 78229-4253 3. SPONSORING/MOINTORING AGENCY REPORT NUMBER. II National Guard Readiness Center/CEVR 500 Fetchet Avenue ndrews ARB MD -20762-5157 11. SUPPLEMENTARY NOTES 12. DISTRIBUTION/AVAILABILITY STATEMENT 13. ABSTRACT (Maximum 200 words) n. investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1. Southwest, andfill, Site 2 * Tire Training Area 2; Site 3 * Fire Training Area 1, Site 4 * West Ramp; Site 5 * Tucker reek Landfill, Site 6 * Northwest Landfill, Site 7 * East Ramp, and Site 8 * Base Coal Storage Pile. olume IV contains the following Appendices; K * Sampling Chain - of * Custody Documentation, L * Data alidation Tables, M * Domestic Well Logs, N * Histograms of Analyses for Soil Samples, O * Histograms for Analyses for Groundwater and Surface Water Samples, P * Defense Priority Model, and Q * Horrespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation 16. **ARRETECOGE*** Unitarity Investigation Of Review In Stage Investigation Of Review In Security Classification Of Review In Security Classificati	7. PERFORMING ORGANIZATION N	IAME(S) AND ADDRES	S(ES)			
an Antonio, Texas 78229-4253 2 sponsorme/Monitorine agency name(s) and address(es) 3 sponsorme/Monitorine agency name(s) and address(es) 3 sponsorme/Monitorine agency name(s) and address(es) 3 sponsorme/Monitorine 3 sponsorme/Monitorine 5 sponsorme/Monitorine 6 sponsorme/Monitorine 5 sponsorme/Monitorine 6 sponsorme/Mon		rporation				
3. Seonsoring Monitoring Agency Name(s) and Address(es) 10. Sponsoring Monitoring Agency Name(s) and Address(es) 11. Supplementary Notes 12. Distribution is unlimited 13. Abstract (Maximum 200 words) 14. Abstract (Maximum 200 words) 15. In investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1. Southwest and fill, Site 2. Fire Training Area 2, Site 3. Fire Training Area 1, Site 4. West Ramp, Site 5. Tucker reek Landfill, Site 6. Vorthwest Landfill, Site 7. East Ramp, and Site 8. Base Coal Storage Pile. In Incompany of Company of Co	· •	en esta a estados estados en apropara estada en el estado en el estado en el estado en el entre el entre el en En estado en en entre el en	entermone version in a	Silan i San Berline i e e e e e e e e e e e e e e e e e	ti til te til server	หมอง การเกราะการเกราะสามารถสามารถสามารถสามารถ - คิราการ เมื่อสุดสารการสำ
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 10. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 11. SUPPLEMENTARY NOTES 11. SUPPLEMENTARY NOTES 12. DISTRIBUTION/AVAILABILITY STATEMENT 12. DISTRIBUTION/AVAILABILITY STATEMENT 12. DISTRIBUTION ADDRESS(ES) 13. ABSTRACT (Maximum 200 words) 14. ABSTRACT (Maximum 200 words) 15. NUMBER OF Page Pile. 16. ABSTRACT (Maximum 200 words) 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 10. SECURITY CLASSIFICATION 10. ASSTRACT (Page Pile) 11. SECURITY CLASSIFICATION 12. DISTRIBUTION CODE 13. ABSTRACT (Maximum 200 words) 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. ABSTRACT 16. ABSTRACT 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. DISTRIBUTION CODE 12. DISTRIBUTION CODE 13. DISTRIBUTION CODE 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. ABSTRACT 16. ABSTRACT 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 10. PETRIS PAGE 10. DISTRIBUTION CODE 12. DISTRIBUTION CODE 13. DISTRIBUTION CODE 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. ABSTRACT 16. ABSTRACT 17. DISTRIBUTION CODE 18. DISTRIBUTION CODE 18. DISTRIBUTION CODE 19. DISTRIBUTION CODE 19. DISTRIBUTION CODE 19. DISTRIBUTION	an Antonio. Texas 78229-42	253 i			ľ	OMM8 No. 0707-5188
11. SUPPLEMENTARY NOTES 12a. DISTRIBUTION/AVAILABILITY STATEMENT 12b. DISTRIBUTION/AVAILABILITY STATEMENT 12c. DISTRIBUTION (AVAILABILITY STATEMENT) 12c. DISTRIBUTION (AVAILABILITY STATEMENT) 12c. DISTRIBUTION (AVAILABILITY STATEMENT) 12d. DISTRIBUTION (CODE pproved for public release; pproved for public release; pproved for public release; pproved for public release; not investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1 - Southwest andfill, Site 2 - Fire Training Area 1, Site 4 - West Ramp, Site 5 - Tucker reck Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile folume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms f Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - forrespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. 4 RECCOGEPO 17. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION OF ABSTRACT 20. LIMITATION	O COONCODING (MONITODING AC	CHEV MARKETEL AND	ADDRESS(ES)	vance, included the time for Justice. Subdictor ments yet	10. SPON	SORING / MONITORING
11. SUPPLEMENTARY NOTES 12a. DISTRIBUTION/AVAILABILITY STATEMENT 12b. DISTRIBUTION/AVAILABILITY STATEMENT 12c. DISTRIBUTION (AVAILABILITY STATEMENT) 12c. DISTRIBUTION (AVAILABILITY STATEMENT) 12c. DISTRIBUTION (AVAILABILITY STATEMENT) 12d. DISTRIBUTION (CODE pproved for public release; pproved for public release; pproved for public release; pproved for public release; not investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1 - Southwest andfill, Site 2 - Fire Training Area 1, Site 4 - West Ramp, Site 5 - Tucker reck Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile folume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms f Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - forrespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. 4 RECCOGEPO 17. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION OF ABSTRACT 20. LIMITATION	h Pallicennă of Infalle anon "Including reconstant Burgarina van Sulae (200), ratioenia, 24, 2723 Viz Nichola	s Contor/CEVP	reszdesaten) yuz end zaszponkon – edet	arters Secuces, Especialiste f nel d'espai vitto de deception de	c Indo 99669 c ect (0794-9)	i i berados visita in 2016, 12 i i i i i bendi. Kil, Williamo o DC 70503.
11. SUPPLEMENTARY NOTES 12. DISTRIBUTION / AVAILABILITY STATEMENT 12. DISTRIBUTION CODE 13. ABSTRACT (Maximum 200 words) 14. ABSTRACT (Maximum 200 words) 15. Not a supplementary notes at Selfridge Air National Guard Base, Site 1 - Southwest and fill, Site 2 - Fire Training Area 1, Site 4 - West Rampi, Site 5 - Tucker reek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile. Solume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms f Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - sorrespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. ABSTRACT 17. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 20. LIMITATION OF ABSTRACT 20. LIMITATI						menteriori et il ministra con estato estato menteriori propriese della estato della estato della estato della e La constanta della estato della e La constanta della estato della
12a. DISTRIBUTION / AVAILABILITY STATEMENT pproved for public release; pproved for public release; pproved for public release; pproved for public release; proved for	ndrews AFB MD 20762-515	5700, with street in economic or of	ereta el total i despete agrandigas. I	Bout an anomal of posts of the section of	r one trace of the execution for all the executions	aktionarinkoi asika Timak musikkin omisko voorka van kalende ee salain sakside. Ne kun toolooga kun in takka kun kunta toolooga (takka too
12a. DISTRIBUTION / AVAILABILITY STATEMENT 12b. DISTRIBUTION CODE pproved for public release; istribution is unlimited 13. ABSTRACT (Maximum 200 words) 14. ABSTRACT (Maximum 200 words) 15. In investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1 - Southwest andfill, Site 2 - Fire Training Area 2, Site 3 - Fire Training Area 1, Site 4 - West Ramp; Site 5 - Tucket reek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage File. 15. Olume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms f Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Correspondence. 16. AMDECORED 17. SEQURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 20. LIMITATION OF ABSTRACT 20. LIMITATION OF					J. PDINE	MENTON THE STATE OF STATE OF
proved for public release; proved for proved	11. SUPPLEMENTARY NOTES				in a second	
proved for public release; proved for proved	The Committee State Committee Commit	nastraga (1918) izmo i ki orak sido astraga.	Company of the compan	and a partie in the growth which is seen as the little payable is not that	W. C.	
pproved for public release; same a personal provided for public release; same and full sites at Selfridge Air National Guard Base; Site 1. Southwest and full; Site 2. Fire Training Area 2, Site 3. Fire Training Area 1, Site 4. West Ramp, Site 5. Tucker breek Landfill, Site 6. Northwest Landfill, Site 7. East Ramp, and Site 8. Base Coal Storage Pile. Solume IV contains the following Appendices; K. Sampling Chain - of - Custody Documentation, L. Data alidation Tables, M. Domestic Well Logs, N. Histograms of Analyses for Soil Samples, O. Histograms of Analyses for Groundwater and Surface Water Samples, P. Defense Priority Model, and Q. Forrespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES 16. ARRECOGED 16. Olume I, Seffridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF REPORT					<u> </u>	
n investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1 - Southwest and fill, Site 2 Fire Training Area 2, Site 3 - Fire Training Area 1, Site 4 - West Ramp, Site 5 - Tucker reek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile. Solume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms of Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - correspondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation folume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT OF THIS PAGE	istribution is unlimited	esme(s) Abovādones	x(65)			
andfill, Site 2 Fire Training Area 2, Site 3 - Fire Training Area 1, Site 4 - West Ramp, Site 5 - Tucker reek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile. Journal of Contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms of Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Journespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation Journal of Column 1, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF REPORT 19. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT	13. ABSTRACT (Maximum 200 word	ds)		· · · · · · · · · · · · · · · · · · ·	4	
andfill, Site 2 Fire Training Area 2, Site 3 - Fire Training Area 1, Site 4 - West Ramp, Site 5 - Tucker reek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile. Journal of Contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms of Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Journespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation Journal of Column 1, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF REPORT 19. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT			0.10:1		i a	
reek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile. folume IV contains the following Appendices; K - Sampling Chain - of - Custody Documentation, L - Data falidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms of Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Forrespondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation folume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT OF ABSTRACT						
alidation Tables, M - Domestic Well Logs, N - Histograms of Analyses for Soil Samples, O - Histograms of Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Correspondence. 15. Number of Pages Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation of Colume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 16. ARREGOGIE 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF THIS PAGE 19. SECURITY CLASSIFICATION OF ABSTRACT						
Analyses for Groundwater and Surface Water Samples, P - Defense Priority Model, and Q - Correspondence. 14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation Tolume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT 19. SECURITY CLASSIFICATION OF ABSTRACT 20. LIMITATION OF ABSTRACT						
14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation Column I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF REPORT 18. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT OF ABSTRACT						
14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation Colume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF REPORT 18. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT	orrespondence.		- ·	•	iviouei,	and &
14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation of the page o	en kultuudoksikkikki kohtoo					
15. NUMBER OF PAGES installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation olume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF REPORT 18. SECURITY CLASSIFICATION OF THIS PAGE 19. SECURITY CLASSIFICATION OF ABSTRACT 20. LIMITATION OF ABSTRACT						
15. NUMBER OF PAGES installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation folume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF REPORT 18. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT						
14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation 16. ARRECOGNO 16. ARRECOGNO 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION OF REPORT 19. SECURITY CLASSIFICATION OF ABSTRACT 19. OF ABSTRACT	us. Cryst Wide Activities	NATE BENT	a montage work to a graph of the	et williament eta filozofia ili wwaste bilant den den entere di itae en	[.25, 27	Carlot and the control of the carlot and a section of the carlot and the carlot and a section of the carlot and the carlot and a section of th
14. SUBJECT TERMS 15. NUMBER OF PAGES Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation 16. ARRECOGNO 16. ARRECOGNO 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION OF REPORT 19. SECURITY CLASSIFICATION OF ABSTRACT 19. OF ABSTRACT			•		ř	
nstallation Restoration Program; Air National Guard; Phase II Stage 2 Investigation 16. ARRECOGEO Tolume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF REPORT 18. SECURITY CLASSIFICATION OF THIS PAGE 19. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT			* 13			
nstallation Restoration Program; Air National Guard; Phase II Stage 2 Investigation 7 olume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT 19. SECURITY CLASSIFICATION OF ABSTRACT 20. LIMITATION OF ABSTRACT	14. SUBJECT TERMS					15. NUMBER OF PAGES
Tolume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan 17. SECURITY CLASSIFICATION OF THIS PAGE 18. SECURITY CLASSIFICATION OF ABSTRACT OF ABSTRACT 20. LIMITATION OF ABSTRACT	nstallation Restoration Prog	ram· Air National				m an oxide configuration and an expension of the configuration of the co
17. SECURITY CLASSIFICATION OF THIS PAGE 19. SECURITY CLASSIFICATION OF ABSTRACT					· ·	16. PRILE CODE
	17. SECURITY CLASSIFICATION	18. SECURITY CLASS		. SECURITY CLASSIF	ICATION	20. LIMITATION OF ABSTRACT
	Jnclassified		fied			none

GENERAL INSTRUCTIONS FOR COMPLETING SF 298

The Report Documentation Page (RDP) is used in announcing and cataloging reports. It is important that this information be consistent with the rest of the report, particularly the cover and title page. Instructions for filling in each block of the form follow. It is important to stay within the lines to meet optical scanning requirements.

- Block 1. Agency Use Only (Leave blank).
- Block 2. Report Date. Full publication date including day, month, and year, if available (e.g. 1 Jan 88). Must cite at least the year.
- Block 3. Type of Report and Dates Covered. State whether report is interim, final, etc. If applicable, enter inclusive report dates (e.g. 10 Jun 87 - 30 Jun 88).
- Block 4. <u>Title and Subtitle</u>. A title is taken from the part of the report that provides the most meaningful and complete information. When a report is prepared in more than one volume, repeat the primary title, add volume number, and include subtitle for the specific volume. On classified documents enter the title classification in parentheses.
- Block 5. Funding Numbers. To include contract and grant numbers; may include program element number(s), project number(s), task number(s), and work unit number(s). Use the following labels:

C - Contract PR - Project

TA - Task

G - Grant

PE - Program : WU - Work Unit

Element

Accession No.

- Block 6. Author(s). Name(s) of person(s) responsible for writing the report, performing the research, or credited with the content of the report. If editor or compiler, this should follow the name(s).
- Block 7. Performing Organization Name(s) and Address(es). Self-explanatory.
- **Block 8.** Performing Organization Report Number. Enter the unique alphanumeric report number(s) assigned by the organization performing the report.
- Block 9. Sponsoring/Monitoring Agency Name(s) and Address(es). Self-explanatory.
- Block 10. Sponsoring/Monitoring Agency Report Number. (If known)
- Block 11. Supplementary Notes. Enter information not included elsewhere such as: Prepared in cooperation with...; Trans. of...; To be published in.... When a report is revised, include a statement whether the new report supersedes or supplements the older report.

Block 12a. <u>Distribution/Availability Statement</u>. Denotes public availability or limitations. Cite any availability to the public. Enter additional limitations or special markings in all capitals (e.g. NOFORN, REL, ITAR).

DOD ;

See DoDD 5230.24, "Distribution

Statements on Technical

Documents."

DOE See authorities.

NASA - See Handbook NHB 2200.2.

NTIS | Leave blank.

Block 12b. Distribution Code.

DOD - Leave blank.

DOE - Enter DOE distribution categories from the Standard Distribution for

Unclassified Scientific and Technical

Reports.

NASA - Leave blank.

NTIS - Leave blank.

- Block 13. Abstract. Include a brief (Maximum 200 words) factual summary of the most significant information contained in the report.
- Block 14. Subject Terms. Keywords or phrases identifying major subjects in the report.
- Block 15. Number of Pages. Enter the total number of pages.
- Block 16. Price Code. Enter appropriate price code (NTIS only).
- Blocks 17. 19. Security Classifications. Selfexplanatory. Enter U.S. Security Classification in accordance with U.S. Security Regulations (i.e., UNCLASSIFIED). If form contains classified information, stamp classification on the top and bottom of the page.
- Block 20. Limitation of Abstract. This block must be completed to assign a limitation to the abstract. Enter either UL (unlimited) or SAR (same as report). An entry in this block is necessary if the abstract is to be limited. If blank, the abstract is assumed to be unlimited.

DISCLAIMER NOTICE



THIS DOCUMENT IS BEST QUALITY AVAILABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

INSTALLATION RESTORATION PROGRAM (IRP)

PHASE II STAGE 2 INVESTIGATION

VOLUME IV APPENDICES K-Q

127th FIGHTER WING MICHIGAN AIR NATIONAL GUARD SELFRIDGE AIR NATIONAL GUARD BASE MT. CLEMENS, MICHIGAN

DECEMBER 1996

Prepared For

ANGRC/CEVR ANDREWS AFB, MARYLAND

Prepared By

Operational Technologies Corporation 4100 N.W. Loop 410, Suite 230 San Antonio, Texas 78229-4253 (210) 731-0000

INSTALLATION RESTORATION PROGRAM (IRP)

PHASE II STAGE 2 INVESTIGATION

VOLUME IV APPENDICES K-Q

127th FIGHTER WING MICHIGAN AIR NATIONAL GUARD SELFRIDGE AIR NATIONAL GUARD BASE MT. CLEMENS, MICHIGAN

DECEMBER 1996

Operational Technologies Corporation Prepared

- Executive Summary
- Summary and Conclusions

Roy F. Weston, Inc. Prepared

• Introduction

- Results and Significance of Findings
- Field Investigation Program
- Environmental Setting
- Preliminary Feasibility Study
- Appendices A through Q



TABLE OF CONTENTS

Appendix	<u>Title</u>
	Volume II
A	DEFINITIONS, ACRONYMS, AND UNITS OF MEASURE
В	STATEMENT OF WORK
С	CLAYTON ENVIRONMENTAL CONSULTANTS' REPORT
D	PROFESSIONAL PROFILES OF KEY WESTON PERSONNEL
E	NATIONAL AMBIENT AIR QUALITY STANDARDS
F	QUALITY ASSURANCE PROJECT PLAN
	Volume III
G	SOIL BORING AND WELL COMPLETION LOGS
Н	CONTINUOUS WATER LEVEL RECORDER DATA
I	HYDRAULIC CONDUCTIVITY CALCULATIONS
J	GROUNDWATER AND SURFACE WATER SAMPLING DOCUMENTATION
	Volume IV
K	SAMPLING CHAIN-OF-CUSTODY DOCUMENTATION
L	DATA VALIDATION TABLES
M	DOMESTIC WELL LOGS
N	HISTOGRAMS OF ANALYSES FOR SOIL SAMPLES
0	HISTOGRAMS OF ANALYSES FOR GROUNDWATER AND SURFACE WATER SAMPLES
P	DEFENSE PRIORITY MODEL
Q	CORRESPONDENCE

1.1



APPENDIX K

SAMPLE CHAIN-OF-CUSTODY DOCUMENTATION



Custody Transfer R d/Lab Work Request

Assigned to _ Received By Date 12

Phone 800-821-4528 Client Contact Caus Lo

RFW Contact Clinis tropice (Dr. Project Number Class - 14C 3

1. 10.001.1

		SAMPLE IDENTIFICATION		911011	0800		Project Number CYCESS - 147 CA	umber	1,62	7 - 2	(Y) 77			
Sample No.	Client ID No		_					ANAL	ANALYSES REQUESTED	EQUES	TED	ļ	•	۰,4
		Description	Matrix Da	Date Collected	Container/Preservative	VOA	, T	Dieżal	ΔA	7 7	H	DA: A	10	;'
05-462-m111	. 30								2	5	十	17/1/2	1	_•
115-401-Rm	Se Henry	The Resident C.		1.7	-		1	7	1					:
1011 20	1		76:11	1.8/211	500 ml 10r	e,	X	×	<u> </u>	χ	<u>,</u>	X	X	•
172-401-800			- 3		2 46 mivials	<u>*</u> X	•							
05 - 1KI - BKL "			50.1		500 ml 101 r		\ \	X	X	 X	\	1	-	.:
15-401 BC			-		7 77 6		1	+-			1	V	X	,
C C . 4C 1-9/13			-		101.1 PM 17.70	1	1	\dagger						
(n / l . Coc .)			1 / /	1	SCC WITCH		X	K	<u>`</u> \	λ	X	χ	¥	
2 14 1 14 2	- 1	7	ا بر		2 Hemi vials	×								·
147 CUT.		the state of the s	444		CLUK								Ī	
OS "CR FICE	Selfridge	23 "C? FICE Selferduc Soil Report Sommer K	195		E/ f. 2.1		>)	1)	:
7E-412 BIOI	,				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1;	1	+	1	\downarrow	1	1	1	-
1.6. M. J. Ber			<u> -</u>	1	A TIM I VIALS	X	1							
C / X 0 1/2 1			1	-	500 ml jar		$\frac{1}{\lambda}$	À	<u>六</u> 入	<u>、</u> 入	X	く	X	
2014 - C.74 - C.77				,	2 4Cml Vinle	\times							T	
C 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			+				Χ)	\	λ		 X		Š
- 6- 4-11 Apr 1-3-)				_}		>	+	+						
	-		-		7. 5. 4. 110 - 17		#	 	#				0 	3
7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		1		`		+	+		-	1				ŕ
まずま	7.11.0		7	W.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X	S.W.K	+						
	27 1100	1 1 2 1 1				 			_					,
_1.	16.01.16	110 0101K	V	J/H	HOMI VIAL	X								
			-							,	_			
										-	-			
Matrix:											_			

Matrix:
S- Soil
W- Water
O- Oil

Special Instructions:

1.70142-1.071

DS- Drum Solids DL- Drum Liquids X- Other

Time () () Date **Received By**) / / / Relinquished By Items/Reason 9 Time Date 12 LXD Received By 1001 THE MENT Relinquished By Items/Reason Salam . S 00016

53 1	
73	
\$31	

Received By _

Date_

Assigned to __

Custody Transfer Rand/Lab Work Request

Client Contact Augustus Lo Phone 800-821-4528 Client LISAFOEHL

Date Due 12 /25 /87 (Holding Time Linkit)
Project Number 06 28 - 140 2 W. Krumm RFW Contact Christopher

		SAMPLE IDENTIFICATION	ATION			I		ANAL	YSES R	ANALYSES REQUESTED	TED	.	•
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative	NOA	Pet	Metak	As	<i>H</i> 9	ઝ	BWA	1,48 1,87 51,871
5-402-8003	Selfridge ANKB	05-402-8003 Selfridge ANDS Soil Boring Sample	1.3	12/18/87	500 mliar		Ϋ́	Х	X	PΧ	X	X	X
05-402-8003	0	D		, (2 40 m Vials	Х							
05-403-8001					500 ml iar		X	X	X	X	X	X	X
05-403-8001					2, 40 ml vials	X							
05-403-8101					500 ml ian		χ	Χ	χ	X	X	X	X
05-403-BICI					2	X							
05-403-8002					500 ml har		X	X	X	X	X	X	X
05 -403 - ADZ					2 40 ml vials	χ							
05-403-8003					500 ml lar		X	X	X	X	X	X	X
05-403-B003					2 40ml vials	Χ							
05-404-8001				12/19/87	500 ml jar		X	X	X	X	χ	X	X
05-404-8001					2 40 ml vials	X							
05-404-8002					500 ml 1'ar		X	X	X	X	X	X	X
05-404-BOOR					2 40 ml vials	X							
05-404-12003					500 ml lar		X	X	X	X	X	X	X
05-404-8003		·		\wedge	2 40 ml nials	X							
05-404-830		Trip Blank	3	12/19/87	1 40 ml Vial	X							
05-405-8001		Soil Boring Sample Soi	50:1		500mliar		X	X	X	X	\langle	X	X
O5-405-B001	>	, / ~	>	→	2 40 m/ viah	X							
1-6-5													

Matrix:

Special Instructions: DS- Drum Solids DL- Drum Liquids X- Other S- Soil W- Water O- Oil

1.A-5

Time 12-2189 1500 Date 120305-17 **Received By** Relinquished By Ilems/Reason 17/9/8 5:00 pm Time Date EXPINSS Received By tred Krum Relinquished By 100 Per Items/Reason

		Custody !	Tansfer P				Sto The	S
TRACOPICO DE LA CONTRACTION DE	Recei	ved B	Client -	W Client LASAFDEHL ITS BFW Contact	BFW Contact	Nequest	III Vaimas	
	Date_ Assign	ned to	Client Con	Client Contact Augustus Lo	Date Due	12/25/87 (H	Holding Time Land	T
		SAMPLE IDENTIFICATION		12 DA - TOAB	Project Number	Project Number 06 28-1402	120	١
Sample No.	Client ID No.	Description	Matrix Date Collected	Contribute	F	>.	Ī	.
05-405-8001Selfridge ANGR	iel fridge ANGR	Soil Regime Conf.		reservative	VOA Hydro Scan	As Ha	Se Bug 50.7	<u> </u>
C5-405-BIOJ		alter fill for	18/11/21 1300	7-	X	^ X X	}	It
05-405-8083				2 40 m Vials	X			V
65-405-803				500 m jar	X	X	XX	TV
CVS-4105-RID3				2 40ml vials	X			V
CS-405-B/03	7			ন	XX	XX	XXX	K
	-		7	6 70m Vials	X			V
								7
			-			_		_
								_
				2/6				
			1	かく				
								-
rix: Soil DS.		Special Instructions:						
W- Water DL. Dru O- Oil X- Oth	Drum Liquids Other				2027	111		
Items/Reason	Relinquished By	Received Ru	\vdash	-				
1 coo/er 1		W F.	12/	Items/Reason Re	Relinquished By	Received By	Date Time	
		5321/dx 1 102 1 111			The state of the s	I Jajaka	03/12/18-11	
					3	10		
								-
								•
RFW 21-21-001/A-3/86								



Custody Transfer Re de Mork Request

Client Contact **Gus. Lo**Phone 1-800-821-4528

Assigned to _

Received By

Date Due 12-27-87 (Holding Time. Project Number 0628-1402 RFW Contact Christon

		SAMPLE IDENTIFICATION	TION				•	ANALYSE	ANALYSES REQUESTED	
Sample No.	Client ID No.	Description	Matrix Date	Date Collected	Container/Preservative	VOA	Pet	% 'S		
04-406-8001 Selfridge #16B	1 Selfridge	ANGB soil boring sample soi		12-20-87	500 ml jar		X	X		
04-406-8001 Selfridge, AVGB	Selfridge A				2 40m via	X				
04-406-B002	-	soil baring sample			500 ml jar		X	X		
OH-406-B002					2 HOM/ via	Х				
CH-406-B003					500 ml lar		X	X		
CH-406-B003					2 40 m/ via	X		,		
04-407-8001					500 ml lar		X	X		
04-407-8001					2 40m/ vial	X				
2008-404-40					500 ml 120		X	X		
04-407-B002					2 40 m ria	X				
04-407-8003					500 m 1ar		X	X		
OH-407-B003					2 40 m vial	X				
04-408-8001					500 ml iar		X	X		
04-408-BODI		ŕ			2 40 m) Vial	X		,		
04-408-B101		•			500 ml lar		X	X		
1018-804-40	¥	\	-		-	X		,		
							-			
Matrix: S. Soil DS. W. Water DL. O. Oil X.	DS- Drum Solids DL- Drum Liquids X- Other	Special Instructions:			120350	30	0	99-	9	

	Time	120			
	Date	1 Lagette	•		
9	Received By	Meri Lists			
120350 - 66	Relinquished By				
120	Items/Reason				
	Time	0.04			
	Date	48/12/11	,		
Special Instructions:	Received By	Fed Ex			
DS- Drum Solids Special DL- Drum Liquids X- Other	Relinquished By	cocler c. W. Krumm	,		
S- Soil DS- Dr W- Water DL- Dr O- Oil X- Otl	Items/Reason	1 cocler o			



Custody Transfer Region d/Lab Work Request

Client (45#1-06/44/75 RFW Contact Do. Client Contact Gus 40 Date Due 12-28-178 Received By _

Phone 1-800-82/-4.528

Assigned to __

Date__

Project Number 0638 - 14-02

		SAMPLE IDENTIFICATION	CATION	_			roject r	ANALYSES REQUESTED	
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative VOA Pct. 73.	VOA	Pet.	72	
04-408-Ba	oz Selfid	04-408-BOD Selfridge ANSB Soil boing Soi	Soil	12-21-87			X	Y X	
04-408-BOX	2 Selfridge	04-408-BOOZ Selfridge ANGB Soil buring sample Soi	sk Si	£8-12-21		X			
04-406-800	•	7	_		500mliar		X	X	
04-408-BODI					2-40 m/vis	X			
64-404-BOD 3	8				500 ml jar		X	X	
E008-804-80	2				2-40mTuial	X			
04-409-BODZ MS	2 MS				500 ml vial		X	X	
04-408-BODZ MS	2 M S				2-40 ml vial	X			
04-410-13001	>1				500 ml jar		×	X	
1008-011-40	(0)				2-40 ml vial	X			
04-410-B003	20				500 ml jar		×	X	
04-410 - BOOZ	20				2 -40 m in	X			
04-410-B102	8				500 ml jar		X	X	
04-410-8102	.2				Dio 1204- R	X			
04-410-8003	53				500 md jar		X	·X	
04-410-8003	53	->	>		8-40 Juial	X			
C4-4/6-B301	7	Trip Blank	77	1	1 40 ml via	X			
						,			
Makis									
Medita.		Special Instructions: AA	3						

DS- Drum Solids DL- Drum Liquids X- Other S- Soil W- Water O- Oil

Special Instructions: MS - Matrix Spike

120350-66

llems/Heason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
Leoler	cooler a.W. Krumm	Fed Ex	08:4 47/21	08.4			Mari Jean	12.11 molecici	12.=
	,						THE RESERVENCE OF THE PARTY OF	70 200	
				1					

	77
_	
•	\$31

Received By

d/Lab Work Request Custody Transfer Re

Client Contact Augustus

Project Number Client Contact Augustus 40
Phone 1 - 800 - 821-4528

RFW Contact Christopher W Date Due 13

	Ass	Assigned to		Phone 1-	Phone 1-800-821-4528	Projec	t Number	Project Number 0628-1402
		SAMPLE IDENTIFICATION	ATION				ANALY	ANALYSES REQUESTED
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative	1/2A P.S.	Pet 79	
04-408-803	Selfridge ANGB	6B Soil Bering Sample	50i/	12/22/87	SCE MIAN	Χ	X	
04-408-BON3	Selfridge ANKE	04-408-8003 Selfridge ANNB Soil Boriny Sample	50:1	12/22/87	2 (22 /87) 2 40 m vials	X V	di	
04-409-BOO3	, _	, , ,		, (,	500 mliar	BX	X	
04-404-B03	7				2 40 m/ Wals	X	,	
1008-111-60					500 ml 120	X	X	
04-411- BDD1					2 40ml vials			
24-411- BOOINS	5				500 ml lar	X	X	
04-411-BODIMS	15	•			2 40 m/vials	V		
24-411-8002					500 m 1/a p	χ	X	
C4-411-BODS					2 40 m/ vials>	Y		
Off-411-BO03				•	500 m /ar	X	X	
54-HI1-B003					12. 40 m/1 via/5>	V		
04-4A-8001					500 ml iar	X	X	
54-412 -8001					2 40 ml' via/s/>	\checkmark	,	
04-412-B00Z					500 ml var	X	X	
04-412-B002					2 40 ml yials			
54-412-8003					500 ml iar	χ	X	
54-412-8003				·	B 40 ml vials	\		
04-412-8303		Trip Blank	3		HO m/ vial	Ý		
		-						
Matrix:	apiloo anad ad	Special Instructions:			-			

DS- Drum Solids DL- Drum Liquids X- Other S- Soil W- Water O- Oil

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
I peoler (C. W.,	C. W. Krumm	Federal Express	00:81 /2%	90.81			MOMIN LOTH	16:01 1782A	10:30
	,	Ì	181						

] [
	8
	HOGHCOAT
12	7
	7
_≥≥	
	•

Custody Transfer Region of Lab Work Request 1 4708 & Client Self cidye And Block of Contact Chris Crumm

Client Contact Cus Lo

Date Due Jan. 11, 1988 (Limited Inches Time)

Phone 1-800 - 821-4538 Project Number 2628-14-03

Assigned to __ Received By

ANALYSES REQUESTED X X Matrix Date Collected | Container/Preservative | VOH X 2-40ml vial -500m/jar Soil Jan 4, 1980 2-40111 Viet -5-00ml SAMPLE IDENTIFICATION 11-12 ft Interval 11-12 A interval 0-5 ft interval 0-5ft inferm Description Client ID No QQ Booz Bood B00 B001 04-413 614-40 814-40 -413 Sample No.

Special Instructions: DS- Drum Solids DL- Drum Liquids X- Other S- Soil W- Water O- Oil

Home (Bessel									
nems/ nedson	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
1000ler/Stonge	All land	by Fed Ex	1-5-50 180	8			Mari Van	12. C.	. C.
over instru							A CUIA A COIA	200	15 X
				+					
			1	+					
					-				
RFW 21.21-0017A 2786									
99/5-97/96									

Custody Transfer Rend / Lab Work Request 121084

Phone 800-831-4528 Client Contact 6-45 Kp Client USAF OCHL, SAMPLE IDENTIFICATION Received By _ Assigned to _

Date_

RFW Contact Christopher 12. Krouns Project Number 0628-14-02 Date Due

ANALYSES REQUESTED

		SAMPLE IDENTIFICATION	2014					722	ANALISES NEGOESTED	C31 ED	
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative 1004 Ptt 1/0/10 1/015 ED	JOA	Pttle	16 is	£P Fox		
04-41313002 Sel tridge	<u> ५८। मेर्ल</u> ुट	25-30	3	1-5-87	1-5-87 2-4041 Gol	×					
6015151103)	->			13-40m/ 601	X					
04-41313003					1-50041 Gol	-	×	χ			
04-413 13 103		>			1-50041 Gol		×	X			
1008-414 13001		2-3-			2-40ml Gool	×					
10001111001		->			1-500m/601		X	X			
20051414-40		3-5			2-500 ul 601				×		
04-41515001		HURY 05-50 MS			A-4041 Gol	×					
04-415 3001				·	1-500ml Gol		×	×			
04-415B001		510-			2-4041 601	×					
1009-417-6001		7			1-50041 Gol		×	X			
2021311-40		15-70-			A-40M1 (001-	$\hat{\mathbf{x}}$					
2008911-10		-)			1-500m/601		X	X			
64-415 13003		25-30			2-4041 Gol	×				_	
04-415 Booz					1-5004/ Cool		×	×	,		•
24-414 13003	_	13-18-			7-4041601	X					
54-414-13003					1-500m1601		×	×			
4-414-Bay		23-28			3-4041601	×					
4-414 BOOY		→			1-500ull Gal						
									·		
B. B. A. L. L.											

Matrix:

DS- Drum Solids DL- Drum Liquids X- Other S- Soil
W- Water
O- Oil

Special Instructions:

Water Oil

Time	OTE!			İ
Date	17-88 12:00			
Received By	Moud Last			
Relinquished By				-
Items/Reason				1
Time	18,66 18.00			
Date	335/11	•		
Received By	Fed Ex	l		
Relinquished By	1- Cooler C.w. Kounn			
Items/Reason	1- Cooler			

Custody Transfer Remod/Lab Work Request 12/269-

Received By _ Assigned to _ Date

Client USAF OFHL 175 Phone 800 -821-4528 Client Contact Cus Lo

Project Number 0628-14-02 Date Due 45 pet contract RFW Contact Christopher

			CALL TIGHT		Phone 20	Phone 200 -821-4528	-	Project	Project Number 0628-14-02	290	8-14	20%		•
	Cample Mo		SAMPLE IDENTIFICATION	NOL					ANA	YSES	ANALYSES BEOLIESTED	TED		``
`	Campie 140.	Cilent ID No.	Description	Matrix	Date Collected	Container/Preservative	100		12.14				Mctal	8
>	03-418-6001		Seltridge Lini 12. 15-10]	5	111 00		1	_	HAKO DWA 45 HG	45		56	~	Hois
>	103-418-8101		Salmer Bullion	1	90-1-	1-500ml (001		X	X	×	'Χ	X	X	X
5	103-419-Bon		Q-6	1		1-500m/Cool		X	X	×	X	×	X	X
2	1002-016-60		20-0	1		1-500M1 Cool		X	X	X	X	x	×	X
,)	703-419-1900		2-0 CM			1-500m1 Cool		×	X	×	×	×	X	X
)	03-418.2001					1-60m/ Cool	_	×	X	X	X	۷	X	X
3	7 7 7 7		2.10			A-4041 6001	×			•				
	1010-011-02		201-5			2-4041 Cool	Ķ							
77	100-117-50 %		0-5			2-40ml (201	×						1	
K -`	X 03-414-B101		M5 0-5-			7-40-41	دا				\dagger	1	1	
)	03-419.Booz		701-19			7 (12 160)	4			1				
]	03-418 3002		, m +) ,	+		A=40411 Cool	Y							
K-9	72-418-12002		02-61	+		2-7041 GOL	X							
)	03-010-00-		26-30	+		7-40m/ Cool	×							
•	58911-5		25-30	+		2-40416001	×							
7	10000000		3-4			7-404/601	×					-	1	
)	2008/0215-60		3-8			2-4041621	×				+	\dagger		
)	63-42013003		20-25			2-4041/001	×			+			\dagger	T
7	03-418-13002		18.201			1007]	1	1	1	1		
7	102-418. Amz		777	+		1-50m/ (oc/		X	X	X	X	X	<u>`</u>	- と
`	CO GOLD		22-20	+		1-500 MI GOL		X	×	×	×	×	×	7
7	27 711-1116.3		92-30	->	>	1-500m1601		X	X	X	×	X	X	
_				_						-	-	-		

Matrix: S- Soil W- Water O- Oil

DS- Drum Solids DL- Drum Liquids X- Other

Special Instructions:

9 (03-419 PM) MC & COC IN appears to be in anor (03-419-8101 MS)
Bottles indicate that 10 chill he (03-419 AD)

					Plos C	0 1 1 5 CO 10 10 1	or R-1 30 (1.1. mg 11) - Col - Or Pilone Co.	٥	
Items/Heason Relin	Relinquished By	Received By	Date	Time	Hems/Reason	Delimentalendon			
, , , , , , ,	,					veimdaisnea by	Heceived By	Date	Time
201 Daughes C.ed. Trung	Thund	Flech 6x	1/2/27	11/27 19:00		12/07	150	ſ	
_			1	2		ופא כא	18:88 1430	1.8-88	420
						•	00		
					-				
							-		
					•				
RFW 21, 21, 001 / A 2 / BC									



Custody Transfer Remod/Lab Work Request

Assigned to _ Received By

Client 254F OCHL /TS Phone 800-821-4528 Client Contact 605 Lo

REW Contact Chuis Lepher w. Fr Date Due des Per Contract Project Number 0628-14-02

•	•		SAMPLE IDENTIFICATION	TION)				ANAL	ANALYSES REQUESTED	EQUES	STED		•
	Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative		VOA 13NA	aypirti təzl	Metal	45	4	Se	1926is
>	05-416-B0015el+ridge	15el Pridae	Soil boring sample	5	28-9-1	1-500M16001		×	۲.	X	×	کر	X	X
>	20021-916-50	,						×	X	X	X	X	X	×
>	~ D5-416-B102		Repliate 15-20-					X	×	X	×	X	χ	X
2	~ 05-416-12002		25-30			->		. ×	X	Х	. ×	X	×	×
7	102-916-507		5-1-			2-40ml 6001	X							
7	7005-416-3002		(5-20				X							
>	V 05-916-3102		Replicate 15-20-				X							
7	V05-416-13003		75-30			->	X							
7	1008-417-3001		8-9			1-500m1 Gol		X	X	X	×	×	×	X
7	J 05-417.B002		14-19					X	×	×	×	×	×	X
	2008-714-20		MS 14-19-					×	×	×	X	۲	X	. ኣ
	05-417-13003		.57-12			>		X	×	×	×	X	ኢ	X
,	05-417-8001		8-41			A-4041 GOI	X							
2	7005-417-15007		, 61-10				X							
7	7002-111-50		MS 14-19-				X							
7	105-417-13003		_52-h2	\rightarrow		>	X							
				•										
>	V05-417-B30	→	Trip Blank	3	>	1-40ull 601	X							
			-											
	•													
•							-							

K-10

Matrix:

Special Instructions: DS- Drum Solids DL- Drum Liquids X- Other S. Soil W. Water O. Oil

Time Date Received By Relinquished By Items/Reason Time Date Received By C.W. Krumm Relinquished By Items/Reason Samples



Custody Transfer Regrd/Lab Work Request

12126 88.

Client Contact <u>Gus 20</u> Phone <u>800-821-4528</u> Client CLSAF OFHI

Assigned to___

Received By

Date_

RFW Contac Date Due Project Nr

| | L | | |
 |

 |

 | | | | | | |
 |
 | |
 | | | - | - 1 | | |
|------------------------------------------|-----------------------------------|-------------------------------------|----------------------------------------------------------------------

----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------|
| | Z Mois | X | X | X
 |

 |

 | | | | | | 1 |
 |
 | | -
 | | + | + | + | | - |
| ESTED | #cfa(| X | X | x
 |

 |

 | | | | | | |
 |
 | |
 | | \mid | \dagger | 1 | | |
| REQUI | | X | X | X
 |

 |

 | | | | | | | 1
 |
 | |
 | | | | 1 | 7 | |
| ALYSES | 7 | × | X | ×
 |

 |

 | | | | | | |
 |
 | |
 | | | | \dagger | 1 | |
| - 1 | 145 | × | X | X
 |

 |

 | | | | | | |
 |
 | |
 | | | | | \dagger | |
| - | 77 व | 4 | X | X
 | \downarrow

 |

 | | | | | | |
 | ·
 | |
 | | | | | T | 1 |
| 12.5 | 12 | - 1 | - 1 ' | 1
 | 1

 |

 | | | | | | |
 |
 | | 1
 | | | | | | 1 |
| | eservativ | 1001 | 100) | 100/
 |

 |

 | | | | | | |
 |
 | |
 | 1 | | | | | † |
| lainer (B. | | מביין | 2004 | 777
 |

 |

 | | | | | | į |
 |
 | | .
 | | | | | | |
| De Co | 7/ 2 | | | 1
 | -

 | -

 | \downarrow | + | 1 | 1 | - | |
 |
 | | L
 | | 1 | | | | |
| ate Collect | 7-89 |
 | > |
 |

 |

 | | | | | | |
 |
 | |
 | | | | | | |
| | + | ├- | _ |
 |

 | _

 | - | | + | + | + | + | -
 |
 | | _
 | _ | - | \downarrow | 1 | | |
| | | | |
 |

 |

 | | - | <u> </u> | + | + | + | -
 | -
 | | _
 | | \vdash | + | + | + | |
| ption | Aples | _ | |
 |

 |

 | | | | | | |
 |
 | |
 | | | | | | i |
| Descr | San | + | 4 |
 |

 |

 | | | | | | |
 |
 | |
 | | | | | | |
| _ | Si | 1 | |
 |

 |

 | | | | | | |
 |
 | |
 | | | | | | |
| nt ID No. | <u>Pridge</u> | | |
 |

 |

 | | | | | | | T
 |
 | 1 | +
 | 1 | | | | | 1 |
| <u></u> | 3 | 7 | 7 |
 | 1

 |

 | | | | | | |
 |
 | |
 | | | | | | |
| o la | 0021-07 | 000-07 | 90-00 |
 |

 |

 | | | $\cdot $ | | | |
 |
 | T |
 | | 1 | | | | |
| | 7-60 | 5 5 | 22.1 |
 |

 |

 | | | | | | į |
 |
 | |
 | | | | | | Matrix |
| | Description Matrix Date Collected | Schridge Soil Samples 5 1-7-89 1-20 | 03-420-15001 Schridge Soil Samples 5 1-7-88 1-5004/601 X X X X X X X | 03-420-15001 Schridge Soil Samples S 1-7-88 1-500μ/601 X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X </td <td>03-420-5001 Scl-ridge Soil Samples 5 1-7-88 1-500ml Gol X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<!--</td--><td>03-420-15001 Schridge Soil Samples 5 1-7-88 1-500m/Lool X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<!--</td--><td>03-420-15001 Schridge Soil Samples S 1-7-88 1-500μ/601 X X X X X X X X 03-420-6002 \$ 1-7-88 1-500μ/601 X X X X X X X X X X X X X</td><td>03-420-5001 Scl-tridge Soil Samples 5 1-7-88 1-500ml Gol X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<</td><td>03-420-6201 Scl+ridge Soil Samples S 1-7-88 1-500μ/ (sol) X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X</td><td>03-420-f2001 Scl-ridge Soil Saurples Start Sour Soil Analyses 03-420-f2001 Scl-ridge Soil Saurples Start Sourt Soil X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X <</td><td>ANALYSES FOR Container Preservative 17c4 03-420-15001 Sci-fridge Soil Sauraples 5 1-7-88 1-500ul Cool X X X X X X X X X X X X X X X X X X</td><td>03-420-15x01 Scl-fridge Soil Samples Standlyses Halia (3) Hs Hs</td><td>03-420-6002 Climit D No. Description Matrix Date Collected Container/Preservative PG4 Hydro 3NM 4S Hq 03-420-6002 Container/Preservative PG4 Hydro 3NM 4S Hq Hq 03-420-6003 V V V X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<td>403-420-6002 Claim iD No. Description Matrix Date Collected Container/Preservative PC+ PCD I Friedge ANALYSES From Post I Friedge ANALYSES Friedge<td> ANALYSES ANALYSE</td><td>αποτώπου Cuention Matrix Date Collected Container/Preservative PG4 ANALYSES α3-420-6002 Κείπ (3 μ) Κείπ</td><td> Analyses Analyse</td><td> Analyses Contained Contained Post Analyses Post P</td><td>103-420-6001 Selfridge Soil Saurples</td><td>63-420-6001 Sethridge Soil Sauraples 5 1-7-83 1-500u1 Cool X X X X X X X X X X X X X X X X X X</td><td>03-420-5001 5c15ridge Soil Sauraples 5 1-7-88 1-5c0ut Gool 1 X X X X X X X X X X X X X X X X X X</td><td>03-420-25021 Sc15ridge Soil Sauraples</td></td></td></td></td> | 03-420-5001 Scl-ridge Soil Samples 5 1-7-88 1-500ml Gol X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X </td <td>03-420-15001 Schridge Soil Samples 5 1-7-88 1-500m/Lool X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<!--</td--><td>03-420-15001 Schridge Soil Samples S 1-7-88 1-500μ/601 X X X X X X X X 03-420-6002 \$ 1-7-88 1-500μ/601 X X X X X X X X X X X X X</td><td>03-420-5001 Scl-tridge Soil Samples 5 1-7-88 1-500ml Gol X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<</td><td>03-420-6201 Scl+ridge Soil Samples S 1-7-88 1-500μ/ (sol) X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X</td><td>03-420-f2001 Scl-ridge Soil Saurples Start Sour Soil Analyses 03-420-f2001 Scl-ridge Soil Saurples Start Sourt Soil X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X <</td><td>ANALYSES FOR Container Preservative 17c4 03-420-15001 Sci-fridge Soil Sauraples 5 1-7-88 1-500ul Cool X X X X X X X X X X X X X X X X X X</td><td>03-420-15x01 Scl-fridge Soil Samples Standlyses Halia (3) Hs Hs</td><td>03-420-6002 Climit D No. Description Matrix Date Collected Container/Preservative PG4 Hydro 3NM 4S Hq 03-420-6002 Container/Preservative PG4 Hydro 3NM 4S Hq Hq 03-420-6003 V V V X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<td>403-420-6002 Claim iD No. Description Matrix Date Collected Container/Preservative PC+ PCD I Friedge ANALYSES From Post I Friedge ANALYSES Friedge<td> ANALYSES ANALYSE</td><td>αποτώπου Cuention Matrix Date Collected Container/Preservative PG4 ANALYSES α3-420-6002 Κείπ (3 μ) Κείπ</td><td> Analyses Analyse</td><td> Analyses Contained Contained Post Analyses Post P</td><td>103-420-6001 Selfridge Soil Saurples</td><td>63-420-6001 Sethridge Soil Sauraples 5 1-7-83 1-500u1 Cool X X X X X X X X X X X X X X X X X X</td><td>03-420-5001 5c15ridge Soil Sauraples 5 1-7-88 1-5c0ut Gool 1 X X X X X X X X X X X X X X X X X X</td><td>03-420-25021 Sc15ridge Soil Sauraples</td></td></td></td> | 03-420-15001 Schridge Soil Samples 5 1-7-88 1-500m/Lool X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X </td <td>03-420-15001 Schridge Soil Samples S 1-7-88 1-500μ/601 X X X X X X X X 03-420-6002 \$ 1-7-88 1-500μ/601 X X X X X X X X X X X X X</td> <td>03-420-5001 Scl-tridge Soil Samples 5 1-7-88 1-500ml Gol X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<</td> <td>03-420-6201 Scl+ridge Soil Samples S 1-7-88 1-500μ/ (sol) X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X</td> <td>03-420-f2001 Scl-ridge Soil Saurples Start Sour Soil Analyses 03-420-f2001 Scl-ridge Soil Saurples Start Sourt Soil X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X <</td> <td>ANALYSES FOR Container Preservative 17c4 03-420-15001 Sci-fridge Soil Sauraples 5 1-7-88 1-500ul Cool X X X X X X X X X X X X X X X X X X</td> <td>03-420-15x01 Scl-fridge Soil Samples Standlyses Halia (3) Hs Hs</td> <td>03-420-6002 Climit D No. Description Matrix Date Collected Container/Preservative PG4 Hydro 3NM 4S Hq 03-420-6002 Container/Preservative PG4 Hydro 3NM 4S Hq Hq 03-420-6003 V V V X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<td>403-420-6002 Claim iD No. Description Matrix Date Collected Container/Preservative PC+ PCD I Friedge ANALYSES From Post I Friedge ANALYSES Friedge<td> ANALYSES ANALYSE</td><td>αποτώπου Cuention Matrix Date Collected Container/Preservative PG4 ANALYSES α3-420-6002 Κείπ (3 μ) Κείπ</td><td> Analyses Analyse</td><td> Analyses Contained Contained Post Analyses Post P</td><td>103-420-6001 Selfridge Soil Saurples</td><td>63-420-6001 Sethridge Soil Sauraples 5 1-7-83 1-500u1 Cool X X X X X X X X X X X X X X X X X X</td><td>03-420-5001 5c15ridge Soil Sauraples 5 1-7-88 1-5c0ut Gool 1 X X X X X X X X X X X X X X X X X X</td><td>03-420-25021 Sc15ridge Soil Sauraples</td></td></td> | 03-420-15001 Schridge Soil Samples S 1-7-88 1-500μ/601 X X X X X X X X 03-420-6002 \$ 1-7-88 1-500μ/601 X X X X X X X X X X X X X | 03-420-5001 Scl-tridge Soil Samples 5 1-7-88 1-500ml Gol X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X< | 03-420-6201 Scl+ridge Soil Samples S 1-7-88 1-500μ/ (sol) X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X | 03-420-f2001 Scl-ridge Soil Saurples Start Sour Soil Analyses 03-420-f2001 Scl-ridge Soil Saurples Start Sourt Soil X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X < | ANALYSES FOR Container Preservative 17c4 03-420-15001 Sci-fridge Soil Sauraples 5 1-7-88 1-500ul Cool X X X X X X X X X X X X X X X X X X | 03-420-15x01 Scl-fridge Soil Samples Standlyses Halia (3) Hs Hs | 03-420-6002 Climit D No. Description Matrix Date Collected Container/Preservative PG4 Hydro 3NM 4S Hq 03-420-6002 Container/Preservative PG4 Hydro 3NM 4S Hq Hq 03-420-6003 V V V X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X <td>403-420-6002 Claim iD No. Description Matrix Date Collected Container/Preservative PC+ PCD I Friedge ANALYSES From Post I Friedge ANALYSES Friedge<td> ANALYSES ANALYSE</td><td>αποτώπου Cuention Matrix Date Collected Container/Preservative PG4 ANALYSES α3-420-6002 Κείπ (3 μ) Κείπ</td><td> Analyses Analyse</td><td> Analyses Contained Contained Post Analyses Post P</td><td>103-420-6001 Selfridge Soil Saurples</td><td>63-420-6001 Sethridge Soil Sauraples 5 1-7-83 1-500u1 Cool X X X X X X X X X X X X X X X X X X</td><td>03-420-5001 5c15ridge Soil Sauraples 5 1-7-88 1-5c0ut Gool 1 X X X X X X X X X X X X X X X X X X</td><td>03-420-25021 Sc15ridge Soil Sauraples</td></td> | 403-420-6002 Claim iD No. Description Matrix Date Collected Container/Preservative PC+ PCD I Friedge ANALYSES From Post I Friedge ANALYSES Friedge <td> ANALYSES ANALYSE</td> <td>αποτώπου Cuention Matrix Date Collected Container/Preservative PG4 ANALYSES α3-420-6002 Κείπ (3 μ) Κείπ</td> <td> Analyses Analyse</td> <td> Analyses Contained Contained Post Analyses Post P</td> <td>103-420-6001 Selfridge Soil Saurples</td> <td>63-420-6001 Sethridge Soil Sauraples 5 1-7-83 1-500u1 Cool X X X X X X X X X X X X X X X X X X</td> <td>03-420-5001 5c15ridge Soil Sauraples 5 1-7-88 1-5c0ut Gool 1 X X X X X X X X X X X X X X X X X X</td> <td>03-420-25021 Sc15ridge Soil Sauraples</td> | ANALYSES ANALYSE | αποτώπου Cuention Matrix Date Collected Container/Preservative PG4 ANALYSES α3-420-6002 Κείπ (3 μ) Κείπ | Analyses Analyse | Analyses Contained Contained Post Analyses Post P | 103-420-6001 Selfridge Soil Saurples | 63-420-6001 Sethridge Soil Sauraples 5 1-7-83 1-500u1 Cool X X X X X X X X X X X X X X X X X X | 03-420-5001 5c15ridge Soil Sauraples 5 1-7-88 1-5c0ut Gool 1 X X X X X X X X X X X X X X X X X X | 03-420-25021 Sc15ridge Soil Sauraples |

Special Instructions: DS- Drum Solids DL- Drum Liquids X- Other Soil Water Oil اۃ≼ۃ

			neceived By Date Time		Jan 1926 1-8-88 1420	00			
		Relinquished By		75 65	1	•			
		llems/Reason							
			0,	00:21 50/					
	Date		1-700	138					
	Received By		Fed 6x						
Reflection	veiniquisned By	7 : 1	Mary C.W. Kowy				,	9	
Items/Reason		501/2/19/2	Collins	,				RFW 21-21-001/A-3/86	•

1213/8-81 Thristopher W. Krumm

Custody Transfer Record/Lab Work Request
Client USAFOEHL/TS RFW Contact
Client Contact Augustus Lo Date Due

Received By _

Date_

Assigned to __

Phone 1-800-821-4528

REW Contact Christopher W. Krumm Project Number O628-14-02

		SAMPLE IDENTIFICAT	ATION					ANAL	YSES R	ANALYSES REQUESTED	STED		
Sample No.	Client ID No.	Description /Time Matrix	Matrix	Date Collected	Container/Preservative	VOC	Pet	metal soored	Ac	, H	92	Soil	BNA
05-421-8001	Selfridge	55:01/ ,5-0	N	88-8-1	500ml 12 /cool		X	X	X	PX	X	X	X
05-421-BOOL		0-5' /10:55			ナッ	Χ							
05-421-B002		10-15' /11:18			500 ml iar /eaol		X	X	X	X	X	X	X
D5-421-B002		10-15, /11:18			2)40 m) Midls /cool	Χ							
05-421-8003		25-30' /11:57			500 ml, ar /2001		X	X	X	X	X	X	X
05-421-13003		25-30,/11:57			2) 40 m/Vials/cool	X							
02-427-8001		0-5' /11:30			500 ml jar /2001		X	X	X	X	X	X	(
02-422-8001		0-5' / 11:30)	100 / Slaly /m 04 (E	X							
03-422-8002		5-10' / 12:03			500 ml iar /cool		X	X	X	X	X	X	
02-422-8002		5-10' /12:03			(2)40 m/ Minb feed	χ		·					
02-422-8003		25-30' / 14:35			500 ml iar 1600		X	X	X	X	X	X	
03-422-8003		25-30' /14:35			(2) 40 m/ Vials / cool	X							
1008-524-20		0-5/115:50			500 ml icr (co)		X	X	X	X	X	X	
02-423-8001		0-5, /15:50)	2)40 m1 vials /ccol	X							
02-423-8101		0-5' /15:50			500 ml in /cool		X	X	X	X	X	X	
02-423-8101		0-5' /15:50			2)40 m) viels 1 col	X							
02-423-B100	ξ.	15-20 / 16:00			500 ml ian 1000		X	X	X	X	X	X	
02-423-8002		15-20' 116:00			•	X						1	
02-423-8003		20-25, 116:08			500 mliar 1000		X	X	X	X	X	X	
02-423-8003	+	80:01 / ,52-02	>	\	2)40 ml rigls /cco)	X							
Matrix:		Special Instructions:		ر									

DS-' Drum Solids DL- Drum Liquids X- Other S- Soil W- Water O- Oil

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
1-cooler	(bir) (Landec	Ledral Eronew	00-61 +3/6/1 87	1700			18011 Just 1118	8/1/	11/10
	>		,				- And	97	
	,								

Received By

Date__

Assigned to_

Custody Transfer Record/Lab Work Request

Client Contact Augustus Lo Phone 1-800-821-4538 SAMPLE INENTIFICATION

Date Due 1/16/88 (Holding Time) Project Number 0628-14-02 RFW Contact Christopher W.

		SAMPLE	SAMPLE IDENTIFICAT	NOIL					ANA	YSES !	ANALYSES REQUESTED	STED		•
Sample No.	Client ID No.	Descrip	Description /Time	Matrix	Date Collected	Container/Preservative	7 ()	Pet	Metal			,	11:05	\\ \frac{1}{2}
02-434-8001	Selfridge	-O	04.6/	V.	1-9-88 500	500 . 1	70.	1	THE X	×		2/2	3	BART
03-424-BOO!	_	L	04:6/	-		_					X	V	1	
02-424-8002		10-15	01:01	\vdash		7))		7	
02-424-8002		10-15/	01:0/	-		1000 H (C)	>				\langle	$\sqrt{}$		
02-424-8003		20-25/	10:28			500 ml 300 / 200 /		X	X	X	λ)		
02-424-8003		156-00	/0;28			12 / 1 / 1 / 2 / 1 / 2 /	λ	1					1	
08-425-B001		1,01-5	9:30			500 m 100h			X	X)	$ \rangle$	ŀ	
08-425-8002		1,51-01	5h.'b] `			$\langle \rangle$	()		X		
O8-425-BOO3	\	1,50-00	10:15	>	>	>			X	$\langle X \rangle$	V	A	Ì	1
CB-426-8001		\neg	1423			500 ml jarkal			$\langle \rangle$	(×	/ >	$\langle \times $		XX
Se-426-303		10-15,1	0441			3			X	*	X	X		(X
CB-436-003	>	25-30'/	1505	->	^	>			X	>	X	×		/ >
63-424-830	3 4	Trip B	Blank	S	38-6-1	1-40mlvialfm	X					1		4
		_				5								
												†	_	
				17			$oxed{T}$	T			1			
											\top		1	
								1/						
										1	\parallel			
			•										\parallel	
		Special Instructions:	ons:										1	/
201	DS- Drum Solids													

DS- Drum Solids DL- Drum Liquids X- Other Matrix:
Soil
W- Water
O- Oil

Date Received By Relinquished By Items/Reason 1700 Time 4/6/ Date Received By Relinquished By Nems/Reason

Custody Transfer Record/Lab Work Request Client USRF0FH/ ISRF0FH/ ISSF0H/ ISS

Received By Assigned to

Phone 1-800-1821-4528 Client Contact_Augustus Lo

Date Due 1/17/88' (Holding Time) Project Number 0628 - 14-07 RFW Contact Christopher W. Krumm

EP TOX BWA Soi . **ANALYSES REQUESTED** HA Meta! Pet Matrix Date Collected | Container/Preservative | VOC 2/40) m/ Via/5/coc/ 2) 40 ml Vials / cool /**ယ**၂ 2/40)m/ Vials /eco/ 2) 500 ml jars /cco 2 (40) m/ viels/col col /ca/ 500 ml jar 1000 100 / 20E 2 (40) m/ wiels /coo 2 (40) M VIA S (CO) SDOMI iar /coo 500 ml jar /coo 500 mliar/cop iac/coo 1 2)40 W Wals 1)40 m vial 500 ml 500 m 500 m 88-01-1 SAMPLE IDENTIFICATION S 3:36 13:47 09:00 95:50 10:13 0:33 09:56 3:36 14:25 04:16 09:36 10:13 14:25 81.01 95:50 10:13 19:47 Blank Description 10-25' 5-10' 25-30 30-25 25-30 10-15' 10-15' 10-15 ,51-01 12-10/ 15-202-101 5-10' 51-01 10-15 5-10 5-10' 10-15 Selfnidae Client ID No. 08-427-800 58-427-803 07-428-8001 07-428-8002 2008-427-8002 07-428-BC0Z 07-428-B002 07-428-B162 7-428-8003 17-428-8603 77-429-8004 67-44**9**-8002 07-429-8003 07-429-8003 27-429-8303 07-428-B001 008-83-60 2018-824-CC 07-429-8001 Sample No.

Matrix:

Special Instructions:

DS- Drum Solids DL- Drum Liquids X- Other Soil Water Oil

5181/28/1315 Time Date Received By Relinquished By Fed Ilems/Reason 00,71 88/11/1 Tine Date Received By CW Krumm Relinquished By cooler Items/Reason

.-001



Custody Transfer Record/Lab Work Request

Ollent Contact (7145 us fus Lo Phone 1-800 - 821 - 4528 Client Contact Augus fus SAMPLE IDENTIFICATION Assigned to _ Received By Date__

RFW Contact Chris Krumm
Date Due 1/31/58 (Holding Time)
Project Number 0628-14-03

	ي	}	7	-,-	-	_				,														
	53/16		X																					1
	BNA		>	4																\dagger	1		7	
STED	Se		У	4							T											/		
EOUE	Hg		X																		1			
ANALYSES REQUESTED	As		×										1	1	+				Τ,	\forall	1	1		
ANAL	Screen		×							-		-		1	+				\forall		+			
į	Tet to		X	1	\mid	-	1					1	-	+-	+			/		-	+	1	\dashv	
f	VOA Hadro Scient	X		X	+	+	1				-		\dagger	-	\dagger		/		\mid		+	+		
			1 20	4/500		+	1							\dagger	1	7				lacksquare	+	+	1	
	Container/Preservative	10/1/11	m/ jar	1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/											X		,							
	Contain	JAN. 24,88 2-40 m/ VOA /cos	200	SAN. 24, 188 1-40 m/ 149/000										$/\!\!/$										
	Date Collected	88,72	38 %	JAN. 24, 188									7	-	1							\dagger	\dagger	
		JAN.	JANZ	JAN. 2																				!
201	Matrix	S	S																		-	†	\dagger	i
Description		00/1	1400	Y																			T	
Description	cupulon	J	, 74	Blar						/														uctions:
		15-201	12-51	rip Blank	-				$/\!\!/$															Special Instructions:
-	- 1			17				V	\downarrow	\downarrow						+		_				-	1	Spe
Client ID No.	9	elhid	Ifride	कुरम	`																	-		:
-		30015	8	3	_	+		-	\downarrow	$\frac{1}{1}$	-				_	\downarrow	_		_				1	
Sample No.		01-363-Ball Seltide	01-363-Bool Selfridge	01-363-BOOI Selfridge		/																		
Sai];	0	-	01-	/																			Matrix:

DS- Drum Solids DL- Drum Liquids X- Other S- Soil
W- Water
O- Oil

11.00.00									
nems/ Reason	Relinquished By	Received By	Date	Date Time	Items/Reason	Relinquished By	Received By	Date	Time
/cooler	Jan D. Olanber	Namber Led. Express	008188/52/,	1800			14002	11.10	71.77
	•	•						70 7	77.77
				l					
									_
	•								

Received By _

Date

Assigned to _

Phone 800 - 821-4528

Custody Transfer Regret Lab Work Request
Client USAFOEHL/TS
RFW Contact
Client Contact Augustus Lo
Date Due

123086-89 RFW Contact Christopher L

Rrumm

Project Number 0628 - 1402

	ANALYSES REQUESTED	
	INALYSE	1
	_	
•		-
		-1

	,	SAMPLE IDENTIFICATION	ATION				AN	ANALYSES REQUESTED	REQUE	STED		٦ [
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative	VOC	Pet Metal Hudro Scores	A 45	Ha	Se	So. /	BWA
347-8001	Selfnidoe	30:51/7+01-5 301.41 18 1008-148-90	5	28/1/8	2/1/88 500 mlige/cool		X -X	X	d	X	X	X
-347-8001	Selfridge	06-347-8001 Selfridge 5-10 ft / 15:05	8	211 188	1 (88 (2) 40 ml vials	X			,			
347-830	Selfringe	06-347-8301 Selfridge Trip Blank	$ \mathcal{M} $	2/1/88	1 40 ml VID	X	bottle a	READS SAMPLE	SAMPLE	i	# 06-347-M301	1-M30
-254-MD01	01-254-Mpol Kelfeil	10-15 FT / 16:50	5	88/2/2	500 mline/2001		X	X	X	X	X	X
-254-Mool	0 1-254-Muol /Selfridue	10-15 87 /16:50	S	88/2/2	(2)40m/vin/2	λ						
-345-Auol	Selfin)	06-345-4001 Selfis (10-15 pt/ 4:24	s	1	500 m (hr/2001		XX	X	X	X	X	X
-345M001	06-345MODI /5e/Frishe	10-15 81/4:27	~	×	2) 40 m (2)	X	•					
	i											
	/	/										
	:	/										
		/.	/									
			<i>y</i> .	/								
•	•						•					
	•											
							/					
									\int	`		
											\int	
0 = 6 = 5 = 5										ŀ		

Special Instructions:

DS- Drum Solids DL- Drum Liquids X- Other Matrix:
S- Soil
W- Water
O- Oil

Г				
Time				
Date				
Received By				
Relinquished By				
Items/Reason				
Time	2/2/84 18:30	05:01 845/2		
Date	2/2/88	<i>3/3/</i> 89	, ,	
Received By	9	1,		
Relinquished By	Within I. Nimmer			
Items/Reason	1 Couler			

·~	
3 75	
2	
7	
5'	

rd/Lab Work Request Custody Transfer Re

Received By _ Assigned to_ Date_

Client Contact. Augus fus Lo Phone 1-800-821-7528

RFW Contact Christopher W Date Due 2/10/88 Project Number 0628-1402

P

•		-	Maist 184	+	۲ 				+	1				-	-		-			-		-	1	_
4					1			_	-	1	_					 _								
140	STED		X	1	1																			
28-	REQUE	=	4	>	1					T												+		
0,0	ANALYSES REQUESTED	F	X Y	>	1							•			1			+						
lumber	ANAL	Medal	N V	×	1										1			\dagger					\dagger	
oject N		Pet motal	d dec	×	+	+					+			-	+		-	+	-			-	+	1
ī A		1/2/		+		X				-	+		-		1		_	+	+		_	-	-	1
Phone 1- 800-821-7228 Project Number 0628-1402		Container/Preservative	2 (40,21)	500 1	,,	40 ml			-															
		Date Collected	2-3-88																					
ATIO		Matrix	8	8		3	1	1			_													
SAMPI FIDENTIEL	טיווו בב וסבואו וגיול	Description	01-261-Nov Selferdge 15-2054/1700 hes	15-20 ft / 700 hes	Trio Black																			
	Client ID Me	Chem ID No.	Selferalge																					
	Sample No		01-261-Noo	11-261-4001	01-261-MBx																			

DS- Drum Solids DL- Drum Liquids X- Other Soit Water Oil ဖ်≱ပံ

	Time	_						
	Date							
	Received By							
	Relinquished By							
() () () () () () () () () ()	Hems/ Reason							
ı,	21111	14/00 1.54	773	45/8 9:55				
Oate		2/4/68		2/5/82	2//			
Received By		Ratio 1 Tr		Jane 26 Lane	,	٥		
Relinquished By	11 11 11 11 11	Chalitakilli Koum						
Items/Reason	, 0 ,	- Caler			_			

Custody Transfer Re de 1/2/89 (Holding Time)

Client Contact Augustus to Date Due 4/12/88 (Holding Time) ANIONS WHY TOC NOW METAL Project Number OBAB-140 Z ANALYSES REQUESTED Received By Relinquished By AIK स्थित. Matrix Date Collected Container/Preservative /H.504 liter plastic 10018 350 mlamber /4,504 500 ml phetic 114,50m Liter plastic 14,84 250 ml ambor 14,500 Liter plastic Items/Reason 500ml plaste, 4-6-88 2061 88/1/ Time 4-6-88 Date SAMPLE IDENTIFICATION (6900 W 3 Received By Ol-123-Mool Selfidge ANGB Cooundwater/115 Description Special Instructions: Sefficials ANGB Grandwater Received By Assigned to. Relinquished By Date_ Client ID No. DS- Drum Solids
DL- Drum Liquids
X- Other 01-122-MOI Items/Reason Sample No. -001 cooler Soil Water Oil K-18

ż

		Received Ry	Custody Tra		nsfer R	<u> </u>	fer Reguest	اجارکا ork Reque	₹	O 11 Kaumen	<u> </u>	
	Date_	e-			Cie e	II Conta	ct Augustus Lo	HFW Contact	ہے ہے	12/88/HO Wing	Tine >	
	Ass	Assigned to			Phor	1-8	Phone 1-800-821-4588	•	umber	2041-8290	- 1∕1	
		SAN	SAMPLE IDENTIFICATIO	ATION.				. P	ANALY	ANALYSES REQUESTED		
Sample No.	Client ID No.		Description	Matrix		Date Collected	Container/Preservative	Habovbas Area	to the	BNA		
101m-EC1-10	Selfride ANGB	Groundwater	Water /11:45	3	4-6-88		2) 40 ml vixls/HCe	_		1		
			•	1			950 ml amber/H,50,		X	N N	14/10/8	2
>	*	7		→	7		Yzgal amber /cold		\Box	Ϋ́	X	
01-122-4001	Selfridge AKB Goro unduater	Ground	uater/11:15	3	H-60-	88-	2) 40 m vials/HCD	X				
				\exists			950 ml amber/14,50x		X			/
>/	*		>	>	1		Yzgal amber Jeolos		7	X		
										\	1	
								1, (1,4	\uparrow	\		
								100	$\left \cdot \right $			
				\int			X X X	14		·		
						1						
				$\sqrt{}$			-					
		\										
									/			
											/	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\												/
S- Soil DS- W- Water DL- O- Oil X-	- Drum Solids · Drum Liquids Other	Special Ir	Special Instructions:									
Items/Reason	Relinquished By	d By	Received By		Date	Time	llems/Reason	Relinquished By		Received By	Date	Time
14007/	(for it d	Lend.			33/2/2	1900			1	Marin Soine	11/18	1190
						1 1						
									-			
RFW 21-21-001/A-3/86	.86											

Luest Contact C. W. Krumm Lough L. L. L. B. B. (Helding Time) CI Number Old 28-14 O. 2. CI Number Ol	
BFW Bed Projection of the proj	
Fer R Jul Lab Work Client LUSA FOF HL TS Client Contact Augustus Lo Phone 1-800-821-4528 Phone 1-800-821-4528 I then plastic Loolo Soo al plastic HSO Soo al plastic	
Client Collect	
d by d to SAMPLE IDENTIFICA Description Ground water /09.00 An Federal FXP	
Selfride AWB Solids Orum Solids Other Relinquished I	98
Sample No. OI-133-M001 S. Soil BS. Dr. W. Water DL. Dr. O. Oil Items/Reason Coofer Coofer	RF 21-00

		<u> </u>							_																	•					
		ine	_	H3/5e					X					X	1											Time	140	·			
		ling Time		As/2h					X					X	\prod									/		Date	88/17			\neg	
	٠	ב בת	ED	Metal					X					X												F	1100			\dashv	
1	REW Contact C. W. Krumm		ANALYSES REQUESTED	0 1990				X					\setminus			1							/			ed By	7				
hay	W.	Date Due 7-12- 88 Project Number 0638-	ES RE	TOCL			X					Χ					$ar{}$					/	/			Received By	(Innu				
V	ان 🚅	7-1.	NALYS	C.007	•	V						<u>ノ</u>		_			$ar{}$					/				L	36		\dashv		
$=\eta L$	LSAFOEHLITS RFW Contac	Due _	A			Λ				>	Ă			 			H					_				d By					
) L	Req				\vdash									_				ackslash								Relinquished By					
	Pr TS	1528		· AIK TDS		78	, ,),	X	Š	- A	ব	0	1)			1								Reli					
	b W	4-188		eservativ	ic/colo	ie /115.50"	$\overline{}$	_		- 7	12/H, 54		٧. تا		†			<u>ر</u> [:	son					
	/ La	Client Contact Hugus 7		Container/Preservative	liter plastic	1 liter plastic	250 mlawher	ml plastic	1. Are plastic	11 ter plastic	· plastic	m/ amber		1. for obstic			(88	\							Items/Reason					
	15 / S	tact					250	500 ml	11.14	-	11/ter	250 m/	500	711		_		١ /							·	-	6		_	_	
	fer Re	Client Con		Date Collected	88-9-H	88-9				98-9									7	\setminus						Time	00:61		_		
	Sfe	P. Ci			H-6	4-6				7- H									K							Date	1/2				
	Trar		ATION	Matrix	3	3			→	3				>	_					B							200				
	Custody Transfer Re		SAMPLE IDENTIFICATION		08:30	08:80				00:80																Received By	Express				
1	Sust		LE IDE	Description						_	`										\	\			Special Instructions:	Rec	15 B				
ا ت	•	t to	SAMP	Des	Groundwater	Ground water,				Ground water															ecial Ins	\vdash	<u> </u>				
	Received By	DateAssigned to		_	\sim	1				- 1	_															shed By	mund	KKK			
	ď.	ŏ«		Client ID No.	Selfidge AUXB	Selfidge ANGB				Selfridge AUG				_>									\setminus		Solids Liquids	Relinquished By					!
	5 2¶			Clier					>																DS Drum Solids DL- Drum Liquids X- Other	L	C. U.		_		1/86
	A			Sample No.	56-Mag	-Mool				5-M00					/								\		1	Reason	3				-001/A-3
				Samp	01-156-1100	01-156-MOOL			7	01-125-M001	+			7											Matrix: S- Soil W- Water O- Oil	Items/Reason	Con				RFW 21-21-001/A-3/86
· 2			L			<u> </u>				<u> </u>					<u></u>	<u> </u>									1- 55			1	 		æ

um - / Holding Time	· ·			*	-/5	30											7	/	Date Time	T Roll		
Krumm 8 (Holdi	-1402	OES I ED		7	100				1								<i>/</i>	·	-	ariac 4		
	' >	BNA		` '	X		X			V						/			Received By	" Chin		
	Project Number	1	1 1	X		X					\bigvee								ed By	7		
OTK HE		re Pet Punge	+	98	HO O	3 3	(P)				98	1/2							Relinquished By			
Client Contact Augustus Lo Date Due	00-821-45	Container/Preservative	2 YOM I vials /HCD	amber	(2) 4) m wick HO		Zgalamher leold	,				ST.							llems/Reason			
Client Conta	Phone 1-8	Date Collected	88-9-4		188-9-4		→						7						Date Time	4/6 19'0		
Client Co	toSAMPLE IDENTIFICATION	on Matrix	(n 08:80/		07 00:80		>											:suc	Received By	Express		
ived By	Assigned to SAMPLE I	Description	Groundwat or		Groundwater	1 1	>											Special Instructions:		Gunu Feo		
	Assig	Client ID No.	Selfridge Alles	+;	Selfrige ANGB	,	>			1								Drum Solids Drum Liquids Other	Relinquished By	C.W. bu		
LIMIT PROPRIORE DE LES		Sample No.	01-156-1001	+>	01-125-mooi		>/	1									Matrix.	ater DL-	Items/Reason	/ aooles		

of Work Board	nequesi BFW Contact 7. D. Olander	ate 0.00 4/12/88 (45/12)	Project Number 0628-14-0	ANALYSES REQUESTED	49	X X 100 /NO3 Science / 10 1/Se	×	×	×	X		X	X	×	×						7		
Custody Transfer R. A. / J. St. Work Downson	Client (454F0E#L/ TS	Client Contact Augustus LO	1		Matrix Date Collected Container/Preservative 71K	25 W 4-6-88 Hitr obstic Cold X		250 ml amber /14, 504	STOWN plustic/1650x	V V (11thr plasts / 14002	88-9-h M	1 liter plastic 114.50	250 ml arbec/11500	500ml clastic /11.50	V / Hilfer plastic Ithon		00	1 10 8 - 9 11					
	Received By	Date	Assigned to	ł	Sample No. Client ID No. Description	01-124-M201 Sellide Auch Grown water /1625				>	01-162-MOOL Selfrige ANGO Granndwoder / 1200											trix:	S- Soil DS- Drum Solids W- Water DL- Drum Liquids O- Oil X- Other

Received By

Relinquished By

Items/Reason

Date

Received By

Items/Reason

0021 88/9/

()	•••	•	K			_	- 		Α		_	T			1	<u>-</u>				7	-	4	_	1 = 1			_
to ~		()	-	N H	/				1	$\downarrow \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	_						_			_			Time	0111			
CŢ	}. {	Time)	-		, 'S'		\angle			$\frac{1}{}$													Date	all/	-		
Page	ا ا ا	HOLD'Y	STED		/	1	*			1										V				Spino			
(—	o To Olander	7 - 8	REGUE	4							\prod												Received By	lan d	•		1
(Date Due 4-12-88 (14011). Project Number 0628-14-07	ANALYSES REQUESTED	BWB		 >	4		4										$/\!\!/$				Pec	11/10			
45	est est	e H-l Number	ANA	译	. >	X		X				\prod							/				H			-	-
765		ate Du roject	C	Profession of the Contract of	X		X											/					Relinquished By				
<u>a</u>	天 교		- [Tabcet	X		X											1					Relinqu				
	ISfer Reduest Client ISAF0EHL/ TS	Lo 528			 	~~	1/#(/	0541/	الحيام				7				/						 - 		+		-
_	7. ab	Client Contact Augustus L. Phone 800-821-4528		Container/Preservative	(2) 40 ml 10A/HC	amber	VOA	Cuber	ambec				J										Nems/Reason				
(6 4	0-87		Contair	2) 40,	7.05%	72 gad 0	950 m	hgal					7		/							Item				'
	7 3 3 3 3 3 3 3 3 3 3	Sont Sont Sont Sont Sont Sont Sont Sont		Date Collected	38-		88-		*						/	\setminus							Time	1900			
	Sfer	Clier	L		88-9-4	1	9-4									$\frac{1}{\sqrt{2}}$							Date	28/2/2			
	Custody Tran		SAMPLE IDENTIFICATION	Matrix	3-	}	*3	4	*		-			/		1	1										1
	pdy		NTIFIC		1625		0021						/									••	Received By				1
	Sust		LE IDE	e h	_	-	Japan	`	 				/									itructions	Rec				1
		d to	SAME	ä	mound		Grownsmake					/										Special Instructions:		4			
	Received Bv	DateAssigned to	-	-	Neg G	+			-	-	/			_	\dashv	+	-	_	+				Relinquished By	Olemb.			
	-		Oliver ID No		Fish A	>	Gide A	<u>.</u>	>		/								\			Drum Solids Drum Liquids Other	Reling	Cw			ļļ
9.0 -Q	3		F	5	20 20	+	Sell	-		$/\!\!/$			\dashv	1	+	-			-	$ \cdot $		DS- Drur DL- Drur X- Othe	2	1		+	
195,0000 small	Wind		Semple Mo	Tiple No.	01-124-mzol Salfily HWGB (Sroundwoter	>	Or-162-MODI Selfidge ANCE	+	* /													oil ater 	Items/Reason	cooler			1
ر ا ا	M		Ů	ő	-10		0		\int													Matrix: S- Sc W- ∨ Oi	Herr	3			
36													K-2	24											,		

	11	11		abla		1	22			-	V	Λ	T	T	T	T-	Τ	T	Τ		Τ	T	T	7	Γ	T	_	-	П	\neg	
Payer pr	~	an		F			[]	4	_	\downarrow	1	$\downarrow \downarrow$	1	_	_	_	_	_	_		_	_	1/	1	Time	Ohll	<u>'</u>				
	`.Z	7.			_	3			1														\big		Date	11/08	7 P				
ار الا	מאו	40/dr'n	TED					γ	1				\mathbb{N}									/		1	r	in ich	-			ᅥ	
■ Po	7	Ho Ho	DUES							\star	\dagger		+	\forall						\vdash	-	\forall		1	d By	1	Y				
	, th	88/2	SRE	4	-				-	+		\vdash	-	\forall	1	-	\vdash	-		 	/	_	_	1	Received By	lnne				l	
	0	2	ANALYSES REQUESTED	RNA	2				-	1	-		_	1/	\downarrow	_			_		\bigvee					1	,				
200	civitact.	e K	NA V		1	χ		-	X											/										\dashv	
13.7	request RFW Contact	Date Due 4/12	חפרו	Punge	X			X		<u>ا</u>	1			0						V					Relinquished By					1	
			-	Pet.	X			X		1			\dagger	+	1	$ar{}$									elinquis						
£ +	54	28		<u> </u>	HO	11.50	, j.	HCO	X.	7000	Z Z	3, X,	+	_	1	<u>1/1</u>			/				-		Ľ						
8 CE	2/	12 HS28		Container/Preservative	$1 \sim$		Per/Co	1	amber/H	4)	*	}	8			*\			/						son						•
	田石	MONS S.21		ainer/P	3)40 mlvials	ma	a ander			Jal amber					-	X									Items/Reason	1			,		
	47.0	act 6		Cont	2)40	9.50 ml	1299	7(6)	9.50 m	v.	G			L											ا ا	F			_	_	
	1 43	Client Contact. <i>Augus fus</i> Phone /-800-タスI- <i>HS</i>		Date Collected	88-			88		88	88							\setminus							Time	19,00					
		Clier		Date Co	88-9-H		7	88-9-4	7	88-9-4	88-9-H						/	\setminus							Date	29					
<u></u>	=		TION	Matrix	3	4		3-	1) 					-	/			\setminus					İ		4 5				-	
Custody Trai			SAMPLE IDENTIFICATION		0060			_	\dagger	\neg	1						-		\forall						d By	Express					
			DENT	uo		.		0820		10850	10850				/				1	\setminus				:su	Received By		1 1				
ĪČ			IPLE I	Description	water	-	4	vater /	+;	الم الم	ater '	•			/ .					$ \cdot $				nstructic		Federa			İ		
	ed By	ed to	SAN	0	Groundwater			nouno		Selfridge ANGE Crownsafer	ound w									1				Special Instructions:		Ž		\dashv		1	
	Received By	DateAssigned to		_	3B G	+	5	<u>জ</u>		3	68 62			/			_			_	\bigvee				Relinquished By	Krumm					
~	Œ	o∢		Client ID No.	Selfish ANGB	4	; - <	De AN	\downarrow	See All	Jac AM	_												solids iquids	elinqui	1 3					
5€ 10€	21			Clie	Selfai		,	4		Self	Selfer						_					$\setminus \mid$		DS- Drum Solids DL- Drum Liquids X- Other	¥.	ק. ש				RA)
				No.	MODI		7.00	21-124-11100 Selting ANG Ground water		01-124-MHD1	01-124-M 301 Selfridge ANGB Ground water											V			ason	er				RFW 21-21-001/A-3/86	:
	9			Sample No.	01-133-M001	+	7	-17-	+;	-124	-124-1	/											$\setminus \mid$	rix: Soil Water Oil	Items/Reason	cooler				71.21-00	;
_\ \	5'		Ĺ		ਰ		13	<u>a</u>	\perp		Ö													Matrix: S- Sc W- W O- O	ž		.]			RFW	:

/																			,										
4	- (g)					1-93	8					\bigcup													Time	0////	0411		
Page 7 pt : J	17 6 11			-			X					_\	\- <u> </u>				_						1	1	Date	4/7/00			
Page	Heldi'n	ESTED			/				1				$\frac{1}{\sqrt{2}}$									$/\!\!\!/$		-	<u>_</u>	7	7	ļ 	
8,	-8290	ANALYSES REQUESTED	14								1		_	-			_				/	_	-		Received By	Inni	31/1/4		
	4/12/ ber _D	NALYSE	Pet BNA		\ \	<u> </u>		7	1					1	_		_										777		
メールトラン スプレラリ Request RFW Contact	Date Due	,	Punge Pe		X			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							1					<i> </i>			-		d By				'
Red RFW			1 - 3	^ Y			\ \ \		-	X V		1		0	6/				7	<u> </u>				,	Relinquished By				
Sfer ()ra/Lab Work Foliant USHFOEHA / T.S.	28		ative Pet	#Q \	13.51	ر آھا وی	100	12.7	plas	HC V	五	170			1/1	1			/						Re				
Lab	Client Contact Augustus Lo Phone 1-800-821-4528		Container/Preservative	1 vials	amber /	an ber 10	Vials/	amber 1	amber 10	Alvials/	M riels	Co			- -	\ \	\								Items/Reason				
ra/I Foeh	or Aug 20-8		Containe	3)40 mlvials	950 m	1292	(E) 40 ml	950 ml	1290	104 (E	(2)40m					2		/							llems.				
म्स्या म्य	nt Conta		Date Collected		-		88																		Time	00,61	7		
nsfer Clier	Clie	_		88-7-4			4-6-		7	4-6-	88-9-4					_/	/								Date	1/4	9		
Custody Transfer		SAMPLE IDENTIFICATION	Matrix	3		>	3		+	3	3	-				/			$\frac{1}{1}$						3,	From Pres			
stody		DENTIF	uo	0060/			10850			0880/	10850									\				ns:	Received By	_			
•		MPLE	Description	Groundwater	+	->	Mater	+	1	water	water '				/									Special Instructions:		Falena	1		
Received By	ned	S					Grounduater			Greunduater	Groundwater			$/\!\!\mid$							$\setminus $			Specia	d By	Kniman			
	Date Assig		Client ID No.	Selfing ANGB		7	21-124-MOOIS-14-4/R AUCO		7	Seltridge ANGE	Selfridge ANGB		1								V			olids iquids	Relinquished By	W. Kr			
~ ~ ? ? ?			Clien	Selfind	<u> </u>	1	भुडि		1:		1		/											S- Drum Solids Drum Liquids Other	۳. ا	۵,۲		_	
			Sample No.	01-123-M001			H-Moc			01-134-111401	01-124-1130												\setminus	rix: Soil DS- Water DL- Oil X-	Items/Reason	noler			
# 23			Sam	01-13			<u>6-10</u>		7	9-10	۳ اه													Matrix: S- So W- Wa O- Oil	Items	0			

W. J. W.		Custody Tran	Fran	sfer R		sfer Re rd/Lab Work Request	rk Re	dnes	¥ 	ر مرا	31	0	8
	Hecel Date_	neceived by Date		Client C	ontact	11-11-11-11-11-11-11-11-11-11-11-11-11-	- E	RFW Contact J L Date Due イー12	17 17 17 17	RFW Contact J U Clorder Contact J U Clorder Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Contact J Co	H-1215	1,7	~E)
	Assign	Assigned to		Phone	8007	Phone 800 - \$21 - 4528	۱ .	oject Nur	Q	Project Number 0628-14-	20	-	•
Sample No.	Client ID No.	Description	Matrix	Date Collected		Container/Preservative	-	Pung / Pet	NALYS +	ANALYSES REQUESTED		-	
			-	- 1			T	condista	I	BNH			J
10014-851-10	Jelinige Hive Grandwiter	grandwater / 0930	3	7-6-88		2) 40m/ wals/14Cl		/ X	V				
					950	950 rd amber /11/502	X		<u> </u>	000	2	2	
*	,	>	>	>		amber "	•		X	V	o		
01-160-10001 Selfide 11 MB		Groundwater / 1045	3	38-9-1		/sluls/		X	Y		Y	/	
	- 1					Lī	X	-					
>	>	→>	\	\	1/2001	Clark C			_			-	7
									-			\square	Λ
/	/										1	-	
									-	1	-	+	Τ
					-			\	$\frac{1}{1}$			-	T
					-		 \	$ar{}$	$\frac{1}{1}$			-	
			/		-	83		1	+		-	+	
					9/				+			-	
			1	1					-		-	-	T
			X										T
									-			-	
								/					Π
									/	/		_	
										/			
\	٠								_		/		Τ
Matrix: S- Soil DS- W- Water DL- O- Oil X-	Drum Solids Drum Liquids Other	Special Instructions:											1/
Items/Reason	Relinquished By	3y Received By		Date Ti	Time	Items/Reason	Relinquished By	ed By		Received By	Date	Time	9
Icooler	(Son). Alle	lands Federal Go	Lapress	7/488 172	000				1800	lane Loino	18/	5401 98	V
											>	1	
												-	
BEW 21.21.00174.3786	90				-						4		٦

رر Holding Time Lineable Aromotics galle Time [] [32] Date Project Number 06 28-1402 Hylra desur RFW Contact C. W. Knum M. **ANALYSES REQUESTED** rached Received By 88 u Um 127697-98 13/ Date Due Custody Transfer Re____'d/Lab Work Request Conne Relinquished By Matrix Date Collected | Container/Preservative | A/K | T/S | 12/1693-95 Client Contact Augustus Lo Phone 1-800-821-4528 4Con Iveds /HCL HNOS 240 - 1 YOK5/4CL 2)40m 140A5 14CL HNO 100 2>40m/YOK/HC1 1/2504 142501 14.50 Items/Reason elethi s the 950 ml 250m Les 1866 States Free Time 88/4/ 188 12/88 7/88 7/88 Date 3 SAMPLE IDENTIFICATION **Received By** 0350 Special Instructions: Description 1020 1000 420 1000 1020 Received By Assigned to. 65 6.4% G.W. 000 6.0 GW Relinquished By wash ly 0000 865 SLFRD DS- Drum Solids DL- Drum Liquids X- Other Client ID No. SLFRD 0x-165-MO1 56 FRD 02-14-MOOI SIFRD 02-164-4001 SLFAD 02-165-May 54 FRD 02-166-MOOI 1004-391-20 Items/Reason Sample No. Soil . Water Oil Matrix:

		· '		_	1	_	T	_		·		1	N	1	, .	- -		_						-, -	_	_				
~]	- 1123.	السيح)											\prod													Time	1/1/1	(1/2		
VΩ	; <u> </u>	Holdsty Time		126,12	+			X				X	\													Date	4/0/2	00/01		
	4	90	STED	Ret				X				×									<u> </u>		/				1	2		
	Jon 2) 8861	REQUE	Comm			X				义															Received By		The same		
•	6.	790	YSES	然			X				X											1/				Rec	1	1777		
16-79	sst	Apr.	ANAL	Pet	X				×																	\vdash	12	-	-	
	REW Contact	Date Due Zari	2006	Tet Hodro	8	X				×	٠					1										shed By				
٩	天 R R			Arom					X										2	9						Relinquished By				
2. 6	آ کم	782				11.50	काळ/	C / 11 VE	X	S 11	[P](0)	TOWN TO S					1		Q	1						-	_	-	-	
	Lab	1 = 45.28		Container/Preservative	A VOPA	om ber	liter plastic	۳. ٠	Y VORA	omber	olastic/	3	- 1					4	1/							Items/Reason				
	(F) (F) (F) (F) (F) (F) (F) (F) (F) (F)	or Au		Contain	(2) 401	950 ml amber	41	1111	2 40m	950 int.	Hiter plastic	lite photic						λ								Items				
	nsfer Reguest Client USAFOFHU/ TS RFW Contact	Client Contact AL Phone 800~82		llected	7-1988(2) 40m/WH/HC				8831-									1								Time	0061)		
	Sfer Clier	Clier	ı	Date Collected	4-7			7	4-7								\bigcirc	/								Date	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3		
	Tran		ATION	Matrix	3			Y	3-			Z				A	$\tilde{\gamma}$									r	┼—	 		
	bc		NTIFIC		1405				0491																	Received By	Grown	1		!
*	Sust		SAMPLE IDENTIFICATION	Description	(weter	1	_	\ - K	X La	_	1	1				/									uctions:	Rece	Loden			
Ĭ.) hap	d to	SAMP	Des	Grandwater			-	(Srmmawate)							$' \mid$									Special Instructions:	_	<u>大</u> "			
\$_ 5_	, Ke	DateAssigned to	ŀ	_		_	_		-	_	-	_		_	$/\!\!\mid$	_	_						_		Spe	hed By	Mand			
186	Œ	۵∢		Client ID No.	Self ide Mob	+	+	十 光	145196	_	1														Drum Solids Drum Liquids Other	Relinquished By	7.7			
چ آ	2			<u>ਤੌ</u>	25 B	-	_	+-	1961		_			4				_							- Drum - Drum Other					_
				Sample No.	02-165-0201				05-11M0	\downarrow	1													\setminus	DS- er DL- X-	Items/Reason	ا ا			
2/2			١		1-20.			7 2					<u> </u>												Matrix: S- Soil W- Water O- Oil	Items/	Cooler			

RFW 21-21-001/A-3/86

Custody Transfer Re 14/Lab Work Request

Client USMFQE HL/TS

RFW Contact TD. Olander Time Date Due April 14, 1988 (Holding Time) 82/8/4 Date Comm. Metals diamo **ANALYSES REQUESTED** Project Number 0228-14-02 Received By PLK TDS Pet Hydro - Mutrix Spike Duplicate Container/Preservative Parge Pet Aromat Hulocub Relinquished By W 4-7-1988 (2) 40m1 WOA/ (25/100 X (2) 40ml YOF (ESSION) 2)40m/1014/thosx 2) 40 m/2 VOA-1/2005 - Matrix Spike 1 liter plustic/HMJ 950ml ombor/H2sa 2) 40pol 11019/cs 1 Literplastic/HMS liter plustic///1003 14:50% Phone 800 -821-4528 1 ter plustic/cold liter plastic Icold 95Wall amber /1450y (iterphastic/111003 liter plustic /cold Client Contact Augustus Lo 2) 40 m 10/1/ HCI liter plastic (cold 950mlamber Items/Reason 950 mlambel Matrix Date Collected 0061 38/4/ 4-7-1988 Time 8851-2-4 3861-t-h 109W-911-EO 03-116-m501 Date SAMPLE IDENTIFICATION 3 Leden Cypress 17308 Received By 014 1725 1700 705 Special Instructions: Description 03-118-M301 Selfridge ANOB Translumber Selfridg ANCO Groundwiter Received By Assigned to Selfride Micharoms Relinquished By Date_ Client ID No. Drum Liquids Other Drum Solids 9 DS- | DL- (03-116-M501 03-118 misc 100U-811-E0 03-116-11001 W 21 03-116-mag Items/Reason Sample No. cooler Soil Water Oil Matrix: K-30

	L	\downarrow			1		
_							
		1		/ 			
			/				
	7						
	<i> </i>						
1	\		+				the spile
					Special Instructions:		M501 ada Matix Apr
		1					
		-	1			DS- Orum Solids	DL- Drum Liquids
					Matrix:	Soil	W- Water O- Oil

Items/Reason	Relinquished By	d By Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
Learles felligient	Broug Shail	Felle	4/8/88	1700			MONE LITH	12:01 8/15/10	10,20
	<i>></i> /								
					-				
RFW 21-21-001/A-3/86	98								

12780 L- 308 10:30 Time Date RFW Contact C. W. Krumm.
A 115/88 (Manyum) Na. Metal Ay Ph **ANALYSES REQUESTED** Project Number 06.28 - 14-0 Received By Loine Tol Custody Transfer Re dd/Lab Work Request Relinquished By Matrix Date Collected Container/Preservative 1125 Phone 1-800-821-4528 1 shits 1 42504 11 slute (cold Hems/Reason Client Contact 6us Time 18/88 4 18 188 Date SAMPLE IDENTIFICATION 3 Received By M 501 = Matrice x jills M605 - Mothers 1 Special Instructions: Description 74.79 6 W. Received By Assigned to S.W. Relinquished By 103M-011-80 DS- Drum Solids DL- Drum Liquids X- Other 109W-011-90 Client ID No. West Ilems/Reason Sample No. <u>6</u> Soil Water Oil **Matrix**:

			Trai	nsfer Re.	Custody Transfer Red/Lab Work Request	ork Reques		403/21	,	8at-9p
	Hece Date	ved By .		Client USA1	AFOEHL ITS	RFW Cont	1 C.W.	Summ.)	
	Ass	Assigned to		Client Contact_ Phone /-	- 400 Cor 4410	ı	Date Due 4/15/88	(Melling tim	<u>~</u>	
		SAMPLE IDENTIFICATION	ATION			- Project Nu	Project Number 2628-14-02 ANAI VSES DECITED	EQUIECTED		
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative	Pet Purge	K/// K	EGUES I ED		1/2/
	100M-801-90	GW. (1600	3	4/8/88	2 tout you she	1	V		1/4/	
	*	*	}	+	Lead ander leal	0	>		X	
	06-10- MOOI	JH91 / MG	3		(2) 40-110/5/40			59		
	*		*		Last somber feel	0		X		
	10- 110- 4501		3		12/12/12/12/11/CI	\ \ \				
	7		>		12 golden hopel					T
	119.1-011-40		3		(2) 40m/ Val 5/ 1/K/	/				
	*	, L	×	*	12 gold while					
									1	1
			\int					1		
					-					Τ
						146				T
					BA 7171	1				
					10					
										T
										T
										7
						1	1			
							1		1	
								/		
	- F (1 - O O	Special Instructions:							/	7
Water	DL- Orum Liquids X- Other	MEOI onthisk pails	<							
llems/Reason	Relinquished By	Received		Date Time	Items/Reason	Delinaniekod D.	,		ŀ	ſ
1 1. 1. 1. 1. 1. July	7 1	10-1 N-X				neimquisned by	Received By	+	Date Time	e
	The frame	Ward Lak La	7	4/4/20 19co			Allen	Leath W	1988/102	02701
			+							
										T
									-	T
RFW 21-21-001/A-3/86	91		1							٦

	Custody Transfer Red/Lab M	Received By Client USAFOE HL/TS
80000	A. S. S. S. S. S. S. S. S. S. S. S. S. S.	CONTRACTOR IN

7 1

Vork Request

Client USAFOEHL Phone 1-800-821 Client Contact 6xs

Assigned to _

Date

Request 127805 104 27809

RFW Contact C.W. Kram m

Date Due 4/15/88 Cholding time)

Project Number 2628-14-02

		SAMPLE IDENTIFICATION	ATION					ANAL	YSES F	ANALYSES REQUESTED	STED		
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative Ask Comm. COD TOC NOW MATER AS, Pt.	郊	anions	COD NHS	700	NON	KART	73. P	12tro
	1004 -101-90	16.W. / 14.15	3	4/8/8%	11 plits lold	\							
					Holitic/Hisa			/					
					250 Matte Jusca								
					Soul alete / th sa								
					16 state / 11 NOS								
	->	->	→	~	950ml/H2504								>
	06-247-MODI	6.W. / 1440	ω	4/8/88	11 State 16.00								
					12 shills / H2501			>					
					250m/plette/14.50				>				
					500ml plate Hasa					>			
					16 Noite / HNOS							>	
					950ml/H2506								>
			50	1///-									
				8/4	186								
							\						
											/		
												V	
													1
Matrix: S- Soil DS	DS- Drum Solids	Special Instructions:											

DS- Drum Solids DL- Drum Liquids X- Other S- Soil W- Water O- Oil

wolst shippend Inagorg & Their	d 5.05	4/8/8 1900	000			Morridoots	660 /	
	`				-		129/	12981033
				-				

Received By	Mari Ind		
Relinquished By			
Time Items/Reason			
Time	1900		
Date	4/8/88 1900		
Received By	Fel Ex		
Relinquished By	Gross Sharell	//	
llems/Reason	Level of the game		

RFW 21-21-001/A-3/86

Date Time

X Date Due Horil 16, 1988 (Holding Time) Nog/Np3 , death punglable Hallocanbons Helph Alektri BOLLE Time Container/Preservative Purge Pet Pot Alky Common Metul Pot 15 Re/ "/" X Date X Project Number 06 28-14-02 Dolander Launa **ANALYSES REQUESTED** 20-20-M001 S **Received By** 127862 Comm RFW Contact ノ agree 8 Seals# 00035D0 and #0004JDO Custody Transfer Record/Lab Work Request 127860 137859 Relinquished By * 88-6 141003 /111003 950 ml amber / 12st Client Contact Hustrus 10 Phone 800 - 821 - 4528 950ml ambor/1450 कि ि 40541/2HERID MADE 2 olustic /HNO3 250ml ambor 1450 18 plastic/cold 2040 me UO A-1 14Cl 00 Items/Reason lalustici 2 plustic/ 12 plante Delastic Matrix Date Collected 49/85/17-02 Time 88-6-6 88-6-4/m 88-6-h Date Gioven 3 SAMPLE IDENTIFICATION 3 04-251-mooi (Gronnsbucher/1340) 1340 Received By 1407 Special Instructions: Description 2) 162-06-144-MIDI Graunduncter Grandwater Received By Assigned to -Relinquished By 27860. 04-253-ma DS- Drum Solids DL- Drum Liquids X- Other Client ID No. N 21.1/A-6. ... Items/Reason cooler Sample No. Soil Water Oil Matrix: . ¥

	, ' V	Г		T				T-				7				1	-10g		-				
H. J.	1=	-	+	_							_						Age		Time	07/1			
-	1/4/4/mg Time)	-	11				1	_									delate Motals		Date	22/11/2	T		
	Nequest RFW Contact J. Olander Date Due April 16, 1988 (14) Project Number 0628-14-03	ANALYSES REQUESTED														$/ \top$	l l	ŀ		Laino			
1	1.0lander 116,1988 0628-14	REGU						\setminus									04-154-M001		Received By	}			
brook	1.01	ANALYSES I		41	X	X				1			1				五至		Recei	Unau			
_	ntact S Hpc.	1 4	,	4	deleta	X			$ \begin{pmatrix} 1 \end{pmatrix} $	1						\dagger	70		-	200	11	_	
Custody Transfer Re 1911 26 World But	RFW Contact Date Due April	45.75	X	X	*				\forall	\top	-		+	V			6nd#00025D0		d By				
	F E O G	Metal As Pb Screw Its Se	X	X	*	1			\uparrow	-			+/		-	+	18		Relinquished By				
	07		1100 1001	11003	1 5	Cold		+	<u>多</u>	#			\forall				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6	r e				
	1/75 1/75 1/75 1/45 1/45 1/45 1/45 1/45 1/45 1/45 1/4	/Preserv	Plustic /						þ								620		lio de				
	Client <i>USAFOFITL</i> / 77 Client Contact Assessing Phone 800 - 821 - 45	Container/Preservative	1000 D	2 plantic	L pleaste	2 pleate			-	#							20	Hems / Boseco					
	Client USA FOF	├ ─┤	82		11	7	+	+	-	+		/		+	+	-	000/100	-	+			+	$\frac{1}{2}$
و ا	Client Client Phone	Date Collected	88-6-	83-6-4	88-6-4	7				(X						000	Time	╁		$\frac{1}{2}$		-
isue,) <u> </u>		7		3-	4	++	-	-					_	+	-	#	Date					
■ ⊢ ≥	1 By	Σ	01/51/		+	1	++		+		1	+		+	-	-	Seals		20000				
stoc	DENT	iou	7-1	e /1340	0411							\setminus					ł	Received By		1 1			
P	MPLE	Description	nderre.	100mp	- Aller	*											struction	, a	L. Cosch				
	vec	0	Ve 174-11100 Orandustler	Groundwater	57.04-154-m00) Grownduicker										-		Special Instructions:		lander		+	+	
	Recei Date_ Assig	No.	<u> </u>	MQQ	ma0] (3			1			+	+	1	+	-	H		Relinquished By	Olen				
		Client ID No.	X	100 P-144-MOOI	-h <u>s</u>)-												n Solids n Liquids r	Relinqu	- E				
3	PROPEL INT	7	1	0	7.03		A	-		-	-	+	-	$\downarrow \setminus$			DS- Drum Solids DL- Drum Liquids X- Other			\dashv	-	-	3/86
M. S. Land		Sample No.		7	X	/											i	Items/Reason	Cooler				1-001/A-
3		S	2 2	4	Ce												Matrix: S- Soil W- Water O- Oil	Items	Lcos				RFW 21-21-001/A-3/86
									77 3	_				-									σ

1.1

	M) (1886)	5	` 		}			122363 127864 1278	127	36-1	4 4	127857	- 2		-(+	2	2 Pags
	A Proxim		ived By .	Custody Irans		Ster	H. CESTE	ler R、、・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	کا کا	Ά. Έ.	edue FW Cor	lequest RFW Contact	1.0.0	Danda	Jac		<u> </u>	,
		Date. Assig	ned				Sontac 800	Client Contact Augustus 6. Phone 800 - 821-4528	782.	Ω α.	ate Due	Date Due <i>Apri</i> Project Number	062	Date Due <i>April 16, 1988 (</i>	800 P	Holding A	1.50	
			SAM	SAMPLE IDENTIFICATION	CATION	L	ŀ					ANAL	YSES R	ANALYSES REQUESTED	TED			
	Sample No.	Client ID No.		Description	Matrix	Date Collected		Container/Preservative		Rurg	Pet Hulou	Proto	BNA	Techop	405	NHS	N0%	
	14/8/65.	1865. DE-144-MZW	Groundunto	Mar /1510	3	88-6-4		2) 40 mg 10H	/IECL	X	X							<u>າ</u>
					1		8	950mlamber	/#SSA			X						
							6	850ml amber	_				X					
					1		2	250 intamber	0341					X				,
							7	10 plastic	35,						Х	X		
	110001	_	- [>	7		500ml plustic	188-								X	
	181828		I Trip Blank	ank/1440	3	4-6-1		B) you (JOH	IK!	X	X	delette						
	197807	10hu-m1-90	1 Groundweter	uter /1340	3	88-6-4	7	2)4001 VOH	1/4	X	X							
	108/86	00-144-90	1 Scorndwitter	water / 1340	3	3-6-4	28-	CO 40 me VOPE,	1771	×	X							
]							6	950 Mamber	14.50v			X						
K - 3							7	_ 💙	1/cold				X					
8							7	25 Umlamber	/vsz4/					X				
		,				+		12 plustic /	⁷ 05भ						X	X		
	13261	> 1	,	\	>)		٦	1110								X	
	1000	104-154-mool (groundwater	ubruore) 10	1440 July	3-	4-6-68	T	_	, W	X	*	dare of all						
	C 7961			-	7	7	T	_	100		,	X						
	101100	101W-141-80- 201	(scompanato	ater/ 1340	3 .	4-6-88		1 40m MOH		X	X							
						1	3		182			X			00-90	W-ma	0	
							4	galamb	Plool Book				X	redominal		100 B	bille	
	Matrix:	*				>	1	Polastic/H	1850x						X	X		
	S- Soil DS- W- Water DL- O- Oil X-	- Drum Solids - Drum Liquids Other	Special In	Special Instructions:	als#	Soals # 000/JDO	370	puo	#accepto	325	900		74 20	04-154-M301 & delde pungable 04-154-M001 & delde pungable	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Jeldte An	good good	Bose
	Items/Reason	Relinquished By	ed By	Received By	_	Date	Time	Items/Reason	L	Relinquished By	shed By	\vdash	Rece	Received By	F	Date	Time	
	1000 ler	(for D. O.	Olinda,	Lo Nova OFx Dropo	1	1 38/6/2	1200		-			9	1		100	╁		
٠.									<u> </u>			4	L Garac		, TOWN	,	02)/	
									-									
																-		
ι	EW 2				_	j			-									
												ľ	l					l

SAMPLE IDENTIFICATION	Sample IDENTIFICATION Posciplion Description Descripti	LIMITED HOUSE	Received By	A.		Client USA Client Conta	Client USAFOE14C/ TS Client Contact/Augustus Lo	RFW Contact	Prility !	DOlander 117, 1986 (H	Holding Time	1mi
County-children	Coundmode 15.30 W V V V V V V V V V	AS	signed to	AMPLE IDENTIFICAT		Phone & C	01641-4568	— Project Num	ber _OG_ NALYSES RE	OUESTED	, ,	
	Streen description Street 15.35	Client ID No.				ate Collected		Ange Det	In Alkel -	H-	1. Street	88
Corcumbusater 15.30	Coronal work 1330	rip blanton-255-map	М	H	H		(2) 40ml 4011/1K	X	APACATION		THE PERSON NAMED IN	THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PE
Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by Received by		<u> </u>	وه الاحتداد	\mathcal{L}			12 40 ml Joh/HC	XX			take	多
Groundwater/1453 W 4-10-88 at 900 Att 1		+			$\frac{\parallel}{\parallel}$		PSUM amber/1153	X		•	//	
Groundwater/1453 W 4-10-88 artic/th03 Groundwater/1453 W 4-10-88 artic/th03 Groundwater/1015 W 4-11-88 (2014 Kill Cold The plastic fall X X X X X X X X X X X X X X X X X X	Groundwarfer/1453 W 4-10-88 alfabethe/14103 X X X X X X X X X X X X X X X X X X X	\prod					1 & plustic /cod		×	X		
Groundwater/1453 W 4-10-88 2) 46nd 40df 14cl X X X X X X X X X X X X X X X X X X	Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Spec	H		\ \	 	4	1 & plastic/HXV2				X	*
		06-245-mool		1453	5	28-01-	as tom roat Hell	X				
1 0 plastic cald	18 plastic full	\dashv			1		950ml ambor 1204	X				
1	1 0 plastic #Woz X X X X X X X X X	+			-		1 Polastic/ rold		×	\dashv		
Special Instructions: Saak # 000867 and # merchangle Page	Special Instructions: Saal # 000867 and # many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Received By Date I many Heason Relinquished By Relinquished By Relinquished By Relinquished By Relinquished By Relinquished By Relinquished By Relinquished By Relinquished By Relinquished By	K		4	>	4	1 2 plastic/#NO2				X	X
Special Instructions: Seals # Owo 867 and # completed By Received By Date Time Items/Reason Relinquished By Received By Date They Book # Owo 867 and # completed By Received By Date Time Items/Reason Relinquished By Received By Date Times Items/Reason Relinquished By Received By Date Times Items/Reason Relinquished By Received By Date Times Items/Reason Relinquished By Received By Date Times Items/Reason Relinquished By Received By Received By Date Times Items/Reason Relinquished By Received By Received By Received By Date Times Items/Reason Relinquished By Received By R	11/16 playle feel	100W-9H1-90		1015		88-11-	_					
1 1 1 1 1 1 1 1 1 1	Special Instructions: Saalk # 000867 and # 0008688 The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Date The Head of Time Items/Reason Relinquished By Received By Rece	\dashv					950 mlamber/14.50,	ス	7			
Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions:	Special Instructions: Second Received By The Time	-			_		1 literalastic/cold		X	X X		
Special Instructions: Special Instructions: Special Cynum Wilgs 1800 # 11 88 1800 # 2000 86 7 and # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 # 2000 86 8 <	Special Instructions: Seal # Owo 867 and # owo 8688 Clauded Fedural Cynus IIII/88 1800 MANA LAND HAPPR	7		>	>	>	1 lifer plastic /HDO				X	X
Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions: Special Instructions:	Special Instructions: Saals # Occo 867 and # coccos 868 Clearly Received By Date Time Items/Reason Relinquished By Received By Date Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 88 1800 Clearly Education Will 8											1
Special Instructions: Saalk # ODO867 and # ODO8688 While By Received By Date Time Items/Reason Relinquished By Date While Active By Date Time Items/Reason Relinquished By Date While Active By Boo Manual Apple 1	Special Instructions: Saals # 000867 and # 000868 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800 Chandle Federal Gynus 4/11/88 1800	/	$\frac{1}{2}$				88-11					
Special Instructions: Saal # Oxo 867 and # Oxo 8688 The By Received By Date Time Items/Reason Relinquished By Received By Date The By Received By House Will 1/88 1800 The By Received By Manuel Apple 1/198 1800 The By Received By Manuel Apple 1/198 1800	Special Instructions: Saals # 000867 and # 0008688 When By Received By Date Time Items/Reason Relinquished By Date When Stand Again Items/Reason Relinquished By Date When Standard Cagain Items/Reason Relinquished By Date When Standard Cagain Items/Reason Relinquished By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By Date When Standard Cagain Items/Reason Relinquished By Received By			\\	P							
Special Instructions: Seals # ODOS67 and # ODO868 Time Items/Reason Relinquished By Received By Date While Fellow Willes 1800 While Fellow Willes 1800 While Fellow Willes 1800 While Fellow Willes 1800 While Fellow Willes 1800 While Fellow While While 1800 While Fellow While While 1800 While Fellow While While 1800 While Fellow While While 1800 While Fellow While While 1800 While While While While 1800 While While While While While 1800 While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While While Wh	Special Instructions: Seals # Oxo 867 and # Oxo 868 The Items/Reason Relinquished By Bate Work Feducal Cynus III/88 1800 Manual Cynus III/88 1800 Manual Cynus III/88 1800 Manual Cynus IIII/88 1800			4	¥-		·					
Special Instructions: Saals # Occos 67 and # ccco 868 Classification of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State	Special Instructions: Saal # ODO 867 and # ODO 8688 The By Received By Date Time Items/Reason Relinquished By Received By Date Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 1800 Washington Change 180	1										
Special Instructions: Saals # Oco 867 and # Oco 868 The By Received By Date Time Items/Reason Relinquished By Received By Date Ulcusta Federal Cynus 4/11/88 1800 Man Land Happen Happen Land All Happen Land Land Land Land Land Land Land Lan	Special Instructions: Saals # Occidence of the Company of the Special Instructions: Saals # Occidence of the Special Institution of the Special Company of the Special Company of the Special Company of the Special Company of the Special Company of the Special Company of the Special Company of the Special Company of the Special Company of the Special Company of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Special Institution of the Specia											
Special Instructions: Saals # 000867 and #000868 The Items/Reason Relinquished By Bate Time Items/Reason Relinquished By Bate Time Received By Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through High Bate Through	Special Instructions: Saak # 000867 and #000868 The Items/Reason Relinquished By Bate Time Items/Reason Relinquished By Bate Time Items/Reason Relinquished By Bate The Items/Reason Relinquished By Bate The Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/Reason Items/									_		
Received By Date Time Items/Reason Relinquished By Bate Date Lederal Cyntess 4/11/88 1800 HD/R8	Les Received By Date Time Items/Reason Relinquished By Date Les Les Les Land Cyanus 4/11/88 1800 Lines Received By Date	Drum Solids Drum Liquids Other		0)	•	30000		898000				
Latedoral Cynus 4/11/88 1800	Latedoral Cynus 4/11/88 1800	Reling	Pelinquished By	Received By	Ω	H	Items/Reason	Relinquished By	Receiv	ed By	Date	Time
		and.	Olembe	Lederal Cyru	_	0081 88/1			Morri	Leath	Maks	1:15
				,							-	

RFW 21-21-001/A-3/86

Custody Transfer Resident Work Request

	į			(Tage	ナロナ
W. Control		Custody Tran	ransf	er R.	Isfer Round/Lab Work Request	ork Requ	est	1 / C	1	•
	Date_	(0.00)		Slient Cont	act Hugushus L	Bate Due 75	Date Due Hori	7 1988	19 (H) 8	(Holding Time)
	Assign	Assigned to		Phone 80	Phone 800-821-4528	- Project	Project Number Can	$-\infty$	-140 A	`
		SAMPLE IDENTIFICATION	TION				ANALY	<u>H</u>	STED	
mple N	Client ID No.		Matrix Da	Date Collected	Container/Preservative	COD NH3	Ž	TOC BUA		
137953) 100 W- 345-40	Groundwater /1453	W 4.	88-01-1	12 plustic/11,500	X				
					500 ml plustic/tosa		X			
				+	250ml amba/11504			X		
1,7000		+		Z S	12 galamber/ cold			X		
14/124	D 100 W-9/1-90	Ground water / 1015	3	8	1 1 plastic/H,504	X				
			H	88-11-H	500 ml plashic/14,504		X			
					250 mlamber/1250x			X	•	
	>	>		>	12 galamber /cold			X		
					1					
/										
	/									
					8	0				
		/	/		A-1-1					
					1					
		1		\ \ K						
		*								
							/			
							/	1		
\									/	
Matrix: S- Soil DS- W- Water DL- O- Oil X-	Drum Solids Drum Liquids Other	Special Instructions:	#	498 0000	and	#0000868	∞			
as	Relinquished By	By Received By	Date	ite Time	llems/Reason	Relinquished By	-	Received By	Date	Time
1 Cooler	(Jan D. Clark	what Ledung Can	"/m which	COS1 83/11/2				CAND JAG	XX	14
	2							\$	7	
	<u> </u>		- l 	 - 	- 				_	
W 21										

). }	איייין אייין					<u> </u>		1													-	-		
	•							7	7		 					-		7						
	1700	140 V	TED									15	1	\$										+
	tau t	8-14	EQUES													7				F				$\frac{+}{\parallel}$
7	7-98	200	ANALYSES REQUESTED	120	2		X		-	X	1		X	;						X	1		X	+
st	act L	mher	ANALY	Purge	Silvano.	X			X			X		-	X	1	X		Υ			У		+
dne	H-W Contact C 11/15/10	Project Number 0/6 38-		COMMEN				X			V			Y	/\		\sim	У	/		У	1		$\frac{1}{1}$
fer Re Ad/Lab Work Request	± 2			AIK. S				X	,		X			X							X X			
Worl	2 70	IN				на	1,52	cool	/HCD	14.50	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00#1	4,50x	(000)	HCO	76	IIKO	(cool	1400	14.50	(] oog	/HCO	Ŋ	\parallel
ab	ousta	128		/Preserv	liter plastic/coo.	/2/M/	amber	lastic/	1 rials/	amba	lastic /		amber/t	lastic/c		10 m	rials II			Mes ///	lastic le		mber/III	
1/p/	Client Contact Augustus	,-00		Container/Preservative	liter	2 MOMI VINIS/HCD	950 ml ambor/1450x	1 lifer plastic/ cool	2) HON viels/HCD	950 ml ambor 14.50	1 liter plastic /coo	2) Malvials	950 ml amber/14,50x	Lifer plastic	a) Mal wals	950 mlawher/11,50x	2) 40 ml rials	liter plastic	(2) 40 m/ vits	950 mlamber	lifer plastic	2) 40 m/ vials	950 mlamber/11,594	
36	Contac	8-1			88	2	8		3	0	7	13	9,		1				(M)	6	\Rightarrow	4	6	$\ $
ransfer Re	Client	Phone		Date Collected	4-11-88	_	>	4-11-88	\dashv	×	88-11-4	-	>	88-11-H	-	>	88-11-H	4-11-88	\dashv	>	4-10-88			
rans]	1	TION	Matrix	3	\dashv	>	3	_	7	3	4	>	BH	\dashv	-+	3	K W	1	7	3		+	
dy 1			SAMPLE IDENTIFICA		0HHI,			1440			00			1520		_	1430	9			1530	1		
Custody			E IDEN	Description			- 1	X	.		Groundwater/1500			V		Г	\rightarrow	Ground water 10910	.	+	1			
		0	SAMP	Desc	Groundwater		1	Ground water	\dashv	X	undma		7	Manh	1	7	nomar	nd wat	\dagger	4	ndwate			
Received By	Date	Assigned to	-			_		- 1	_	\downarrow	1 Gre	_		Grow		1	move)	_			Coron			
Ä	۵	As		Client ID No.	1456/04-115-mool	_	. اد	2 1 04-115-MIOI	1		125 ° 04-111-mool			1400 04-249-MODI Groundwater			04-115-19701 Groundwater	102 W-11-40	01-115-mao		04-255-ADDI Coroundwater			
2			-	- E	1-20			70,-10	_	1	7-10	\prod	7	04-2		7	1-40		1/-1/0	>	24-2			
W. J.				Sample No.	1456		670	127		1.10	22		2	700		Dog O	000	2000	120	11/	10			
N.				Sam	127		-	10/		200	1		-	10/		100	166	71	18/	100	1/8/			Matrix
																								

, Q

Special Instructions: DS- Drum Solids DL- Drum Liquids X- Other S- Soil W- Water O- Oil

llems/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
1 200 ler	1. D. Olander	1. D. Olander Federal Fishess	4/11/90	11/00 1800			R	11 000 07/1	
			/	2			Mark Mark	70/01/	11.12

Custody Transfer Re 1/3/Lab Wor eived By Client Contact August Las 26 Sample IDENTIFICATION Bescription Matrix Date Collected Container/Preservative Coverage of 1/1/Fe plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plasts of 1/1/E plast	7 (08	Request	Date Due H-17-8% (Hold	mber 0628-1402	ANALYSES REQUESTED	Common	X X	X	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X	X			X		X	X							Relinquished By Date Time	Mora Just Wolf 11:14	1		
Special is special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in Special in		ransfer Re dellab Work	Client Contact Augustus Lo			Date Collected Container/Preservative	4-11-88 11,70 plastic /cool	yials/	lamber,	4-11-88 11th plastic	40 mlvists	4 950 ml amber/H3	4-11-88 1 liter physic le	40 ml vials	amber III	4-11-88 1 1, ter plane	1 40 m/ Nals /				alter				Time Items/Reason	4/1/80			
Sample No. Cli Bangle No. Cli Bangle No. Cli Matrix: S. Soil DS. Drug W. Water DL. Drug O. Oil X. Othe Items/Reason Leocler Leocler	# \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Heceived By Date	Assigned to	SAMPLE IDENTIFICAT	Client ID No. Description	04-150-mol Groundwater / 1045		*	04-112-mool Groundwater 10920		>	04-112-1150) Ground water 10920		<i>></i>	0260	,	<i>></i>	77	88-77-7	<i>\frac{1}{1}</i>			Drum Solids Drum Liquids Other	Relinquished By	10 Sander Federal			

•
We W

			١,									
	SnS	tody	Irans	ster R	よって	1/Lab	Wor	k Rec	ustody Iransfer Reward/Lab Work Request		•	
Received By				Client	USAFO	USAFOEHL /TS	7.5	RFV	RFW Contact C. W. Kn	2.10.	Kruma	•
Date				Client C	ontact A	Client Contact Augustus Lo	240		Date Due 4/19 /89	88/6	(Hold	5
Assigned to				Phone_	008-1	Phone 1-800-821-4528	4528	Proj	Project Number 0628-1402	90,	28-14	N
Š	AMPLE II	LE IDENTIFICATION	ATION					•	ANA	YSES	ANAI YSES RECIIESTED	ב

1.

49Se	XI			1 7
. 4	<u> </u>			/
43/64	X	X	X	
	X	X		
Not Metal		Х	X	
ANALYSES REQUESTED 160 Mos Met.	X		X	
ANAL X	X	X		
Aniens MH3	X	X		
XXX	X			
	HX502 H,502 H,502	H/80 H/80 H/80	333	
Container/Preservative 11 ifer plastic/eold 11 ifer plastic/H. SON 250 mlember/H. SON 500 ml plastic/H. SON	Liter plastic/HWg Viter plastic/eold Liter plastic/HSOU 250 ml amber/HSOU	500ml phosic/H,50a 1 lifer plastic/HNOs 1 lifer plastic/H,50a 1 lifer plastic/H,50a	250 ml auda 1856 500 ml plushic 1854 Liter plastic AMD	١
	11.ter 11.ter 11.ter 250 m	500m 1 Life 1 Life	250 ml aubu 11.54 500 ml plushic 11.54 Liter plastic 11.180	M
Date Collected	88-			
	86-21-4	N-12-88		
Matrix Matrix	3 +	+3-		
0840 0840	5201	1125		
SAMPLE IDENTIFICAT Description M MA water /0840 1				\tag{\frac{1}{2}}
SAM De De	Groundwater,	01-261-MOOI Groundwater		
10. (G)		9		
5-105-M0	O -259-M001	-3/8	 	
9		-10		
Sample No. Client ID No. Description Sample No. Client ID No. Description Sample No. Description Description Description Description Description	738149	198050		
8	77	18		

DS- Drum Solids DL- Drum Liquids X- Other Matrix:
S- Soil
W- Water
O- Oil

Special Instructions: Seals # 00095D0 and #00105D0

ltems/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
oler	cooler Christopher Krumm Federal Exmess	Federal Exmess	0081 88/21/4	008/			Mari List	11/13/88 11:01	11:0/1
			,					1	

Page 20t

Custody Transfer Read/Lab Work Request

Received By _ Assigned to _ Date_

Phone 1-800-'821-4528 Client Contact Augustus Lo

Project Number 228-140 RFW Contact C. W. Date Due H/19/88

SAMPLE IDENTIFICATION ANALYSES REQUESTED	Description Matrix Date Collected Container/Preservative Petro Punge	Groundwater 10840 W 4-12-88 (2) 40 m/ vials/HCO X	V / /2 0a/ ambro/cell X	01-259-MODI Groundwater/1035 W 4-12-88 (2) 40 m/ viels/HCO X X	750 m/ amber/14.84	V V /z aal amber/cold	01-261-mool Groundwater/1125 W 4-12-88 (2) 40 M vials /HCd X	950 m/ amber/# Sta	V V /2 oal amber /20/6				7			n Solids Special Instructions: Sacils #00009 JDD and #0010 JDO
	Sample No. Client ID No.	12505405-105-MODI	→	1280 49 01-259-N		>	128050 OI-261-M		>						\	Matrix: S- Soil DS- Drum Solids W- Water DL- Drum Liquids O- Oil X- Other

	Received By Date Time	11.00 4/11/18 11:00	/ //		
0010 500	Relinquished By A Recei	Mori			
#00009 JDD and #0010 JDD	Items/Reason				
: 40000°	Date Time	003/ 8424			
Special instructions: Secus #	Received By	Federal Express "	,		
DS- Drum Solids Special DL- Orum Liquids X- Other	Relinqujshed By	C.M. Suman	\		
S- Soil DS- W- Water DL- O- Oil X-	Items/Reason	l cooler			

7) 	tin		144	8/6				X					X					X								Time	130	
Į.		HO Hing Tin)	13/21	11.0				X					X					X								Date	11 septits	-
	Monday		401	The May, meta	2000				X					X				S.	X							ł		137 127	_
		8861761	8-14	NON.	2			X					X					X									g Bý	Los	
		10	Imber 0628-14-03 ANAI YSES BEOLIESTED	26	3		X					人					X										Received By	en	
	St	Apr	Jumber ANA!	Coo	5 III	X					X					X								H_{α}	Ž.	-	+	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	_
	Request Sew Control	Date Due Apri	Project Number 06 28-14-05 ANALYSES BEOLIESTED	AK Common COD	X					X					X			1		X	X	-	1	- 1 (ここし		ed By		
	fer Re /d/Lab Work Request			我	X					X					X					X	X		K		and +CCCORT DO		reinquisned by		
	№	Client Contact 18 LS LO	2 4 0	rvative	Cold	15.64	1250	0541	2	200	3	94	11-50	S	99	34	35	3	200	_	8133		1	- }	ر ∔ م		-	_	-
	/Lab Енс	WStr.	X	Container/Preservative	literplustic/cold	literplastic/11.50	250ml amber/115504	500ml plustic/1t250	Litre plustic/14ND	Liber plastic	liter plastic/thisp	amber	plashid	When plustic/1110gs	Sustic	Sakie/	2mp or	plashig	liter plastic (1100)	liter plastic/celd	astic		#	ı		Heme / Besson			
(4.0 0	Client Contact Laustus		Contair	411	Liber	250ml	500mg	J. Pr.	1	निम्द	250ml amber / 11-50	Mont placky (4.50)		Hita plustic/cold	literplastic/12504	250ml amber/1450,	Dalpitsold July	like o	1	liter plastic/cold		#	Cott # con # shap)	lens.			
	ransfer Re	ort Cont	2	Date Collected	88-				132	28				\top					ć	_	+			7 7		Time	3	928/	
	nsfer	Clie	l	_ [88-21-4)	4-12-88				7	4-12-48	+	+	+	>	18-21-6	12-21-x			1 5	3	Oate	1,- 60	83/1//	-
			CATION	Matrix	3.	+	+	+	¥3	3	+	1	$ar{ar{ar{ar{ar{ar{ar{ar{ar{ar{$	4	3-	1	1	1		3	3			Ses	?				-
1	tody		ENTIFI	_	7450					0 6				9	1350				1,00	245	600		7	\ \frac{1}{2})	Received By	10	Search Colored	
	Custody		SAMPLE IDENTIFICA	Description	with	+	+	+	1		+	+	1;	_	_	+	_	1]~	_			ructions:		Rece	100	2000	
-	Received By	ned to	SAN		sound with				1	0 100				01-257-mm/	מתוארות					S. C. C. C. C. C. C. C. C. C. C. C. C. C.				Special Instructions:		-	7	733	
	Recei	DateAssigned to		L_		+	-	-			-	-	+	0	5	-		\perp	1	1				1		Relinquished By		Kiene	
			3	Ciletit ID No.	01-243-1100	+	+	1	05-235-mm		+	-	1	753		+	\vdash	1	148-mm	100m-11-40				Drum Solids	r ciquius sr	Relinqu	7		
			F			-		-	10	_		<u> </u>	-				-	_	32	204-				DS- Drur	١. ١	_			_
	W. S.		Sample No	J VAC	く!				12885					1282 U					805.	808				oil afer	Oil	Items/Reason	<i>2</i>		
7	'ک		Ľ		7				"					X					10	//				Matrix: S- SC W- W	ô	Item	1000		

RFW 21-21-001/A-3/86

7		ine)	`																						1		Time	<u> </u>	3			-
	2	19,1988 (Holding Time)	•																	1					+		\vdash	11 38/21	*		_	-
1	<u>,</u>	Hold	4	۵																1					\parallel		Date	S/M	+		\dashv	-
	inde	138	7-51	JESTE								-													_		By	×				I
	Olander	6/6	-38-	S REO	A																						Received By	Mr. Ing				
•	\triangle		a Q	ANALYSES REQUESTED	Physical BNA			X			X			X					_					\perp			2	Non				
	est	le A	Numb	Ĩ	1 PEN		X			X			X				X	X						\perp		0		·				
	edu Sew C	Date Due Apri	Project Number 06교용 -/ 4 -0 구		Durge Promot	X			X			X			X	X			X						,	3 J. D	Relinquished By					
•	nster Bcccrd/Lab Work Request				Huland Promot	Х			X			X							X		(V	2				odf80000 # pmo	Reling					
	ۆ ^ل	560	Sas			(+ C)	115.54	/cold	3	35417	11-SC-11	Ξ Ξ	1350	विश	NE TE	/I K II	<u> जि</u> स्मा/	H.S.	Ψ		X	7				# 0	_	_				-
٠	Lab Fr	य इक	71-4		Container/Preservative	LUUK	950ml amber/1158	Izgal amber	(2) found VOPE	950 mlamber/1124	roal omber 11204	as your vort 14C	950ml amper H250c	12 gal amber (cold	Co do my vo A	340 m vote	amber	amber/	2) 40m (JOA/HC)	`	7	7				ond	Items/Reason					
ا مام	5,4	i. Ass.	\ \frac{1}{2}		Containe	BYON NUT	350m	294	July (Som	292	340 m	50mle	2 Gal	2 don	m 050	Sond	32) ml	40m		1	+				90	Items					
(SK.	Client Contact Augustus L	202	l					-86	9			0			1	4-12-88 450 Mamber	4-12-88 950 ml amber				\bigvee				#00007-500	Time		2081			
,	Client F	Client	Phone_		Date Collected	88-21-4		>	4-12-8	-	7	83-21-	1	7	38-21-4	4-12-88	-21-	7-12	83-21-			Y				\$	Date		1/12/28			-
			1	<u>ا</u>	Matrix	3		¥	3		>	3	_	7	3	3	3	3	3			1						H	t	1 1	-	
1	Custody Ira			SAMPLE IDENTIFICATION	-	1420			1510			\dashv			54.50	5001	5450	1005	1510			7		-		Seals	ed By		Federal Grouns			
	stoc			DEN	tion		-		_	-		er/1350	-		$\overline{\cdot}$	_	-11	\sim	- 1			\mathbb{N}	7			lions:	Received By	g	Jesel			J
(•			MPLE	Description	acypo	_	늿	- Jomp	1	7	Agingo	\dashv	*	ber by	Arrib	De La	a war	Janher				Ĭ			Special Instructions:		17	بــــا			
	Received By		Assigned to	S		Groundwater			المكار			TOJ6			Grama weter	سمري	2 CPA	Groundwater	Groundwer					$\setminus \mid$		Specia	1 By) harle			
	Rece	Date_	Assig	Ì	Š	$\overline{}$			NOW.) 100m-) Toom:	J 000	MWOI	71000	M30	1	/	+		\parallel		ds iids	Relinquished By	300	777			
					Client ID No.	01-263-110		X	05-235-May (Ground water	+	+	01-257-moor Groundwater	+	K	100W-8H-40	04-113-m001 Groundureter	04-148-most Groundwater	04-113-moo1	05-255-M30					V		DS- Drum Solids DL- Drum Liquids X- Other	Reli	90 K	3			
֝֞֝֞֝֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֞֓֓֓֡֓֡֓	3			-			+	\rightarrow		+	$\neg \top$	T	-		رع ا				9	+	+	-	1	-	\forall	DS- D DL- D X-	son		7	-		-1
	W. Control				Sample No.	130051			48056		6	280218		,	S03	\sim	28083	75027	75027	$/\!\! $					\setminus	rix: Soil Water Oil	Items/Reason	aster	coole			/100
}	31				S	7			7		-	ja J			9	9	7	7	ئا	\coprod						Matrix: S. S. W. W. O. W.	lte.	4			\perp	

77
W. Sul

ί

Custody Transfer Record/Lab Work Request

ANA! VSES BE		SAMPLE IDENTIFICATION
Project Number 0628	Phone 800-821-4528	Assigned to
The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	CAN CO CAN	Accided to
Date Due April 20 /	Client Contact Hugusty's Lo	Date
RFW Contact	Client USHFOFHC/ 13	
(Figure 1)		Doccinod D.

Olander 1988 (Holding Time) 8-14-02

Sample No.	Client ID No.	Description				9		NALYSE	ANALYSES REQUESTED	STED		
10001		Cescipion	Mairix			Prope.	Hard Alta 105 Comm Hotel Bull	<u>a</u> -	S Common S (S (S (S (S (S (S (S (S (S	1 4 to 1 to 2		700
7001/4	04-151-mo	11/4 04-152-may Grandwotel 0915	3	13-81	4-13-88 (2) 40 md VOA/ HCI				_			
					Pound Amber/14, SU		X					
10000	>	>	→	>	1 liter plastic/ cold			X	X			
1001/2	100m-151-50	05-134-mail Groundwater 10840	3	88-11-4	B) 40 pl 104/14C1	X			╁	X		
					950 ml amber / By Say		X					
					1/2 gad ombor/cold			-			X	
					1 liter plastic/ cold			X	X			
		>	X	7	250 mlamber / 1450							X
												1
							_		\			
					75		\parallel	1				
				, 7	18.							
			7-									
					/							
		727			1	/		-				
							/	-				
							/_	/				
										1		
								-			/	
Matrix: S- Soil DS W- Water DL	DS- Drum Solids DL- Drum Liquids	Special Instructions: S.R.C	S	# 000	seals # 000 1508 and # 0005911	#0	0059	_				1
				-								

Date Received By Relinquished By Hems/Reason Time 1/13/86 1500 Date Federal Express Received By Relinquished By DL- Drum Liquids X- Other llems/Reason W. Water O. Oil cooles

RFW 21-21-001/A-3/86

Matrix Date Collected Container/Preservative COD Affer Performed Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical P	14-13-88 D) 40-13-88 Date Collected Container/Preservative COD WHz Property PMy Self 1 NW Available PM Secret PMy Self 1 NW Available PM Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PMy Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM Secret PM	
W 4-13-88	4-13-86	4-13-88 (1) the plast left from the form of the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the following from the fol
W 4-13-88 2) 40ml 1804/112	4-13-88 20 40ml World (15.54) 4-13-88 20 40ml World (15.54)	4-13-88 2) 40ml 1894/18 4-13-88 2) 40ml 1894/18 3 88 5 # 200/5 08 and # 00059/1 Date Time Hems/Reason Relinquished By Received By William
W 4-13-88	4-13-88 2) 40ind 1804/146 2 80 5 # OOO/5 08 and # OOO 59/1/ Date Time Hems/Reason Relinquished By Received By Date 4/3/58 1500	4-13-88 py 40m2 1809/H6 S# 200/508 and # 20059// Date Time Hems/Reason Relinquished By Received By WH/R
	S# 000508 and # 0005911 Date Time Nems/Reason Relinquished By Received By Wydd	5# 000/508 and # 00059// Date Time Hema/Reason Relinquished By Received By Date 4/3/58 1.520
	\$\frac{2}{4} \frac{8}{3} \text{St.} \frac{1}{2} \frac{8}{3} \text{St.} \frac{1}{2} \frac{1}{2} \text{St.} \frac{1}{2} \frac{1}{2} \text{St.} \frac{1}{2} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2} \text{St.} \frac{1}{2}	5# 000508 and # 0005911 Date Time Hems/Reason Relinquished By Received By Date 4/13/08 1.500
	5# 000/508 and # 0005911 Date Time Hems/Reason Relinquished By Received By Date 4/3/58 1/500 MANAL LOOM WHAR	5# 000/5 08 and # 00059// Date Time Hems/Reason Relinquished By Bate 4/13/88 1.500
	5# 000/508 and # 000591/	5# 000508 and # 0005911 Date Time Hems/Reason Relinquished By Received By Date 4(13/68/1/500) HOULL LOOM WHAR
	5# 000/508 and # 000591/ Time	5# 000/508 and # 0005911 Date Time Items/Reason Relinquished By Received By Date 4/3/58 1:500
	5# 000/5 08 and # 000591/ Date Time Items/Reason Relinquished By Received By Date 4/(3/68 1/500)	5# 000/508 and # 000591/ Date Time Hems/Reason Relinquished By Received By Date 4/3/58 1500
	S# 000/508 and # 000591/ Date Time Items/Reason Relinquished By Received By Date 4/3/58 1.500	5# 000/508 and # 00059// Date Time Items/Reason Relinquished By Received By Date 4/3/58 1:500
	S# 20015 08 and # 2005 911 Date Time Items/Reason Relinquished By Received By Date 4/13/58 1500 MMML Model Wights	5# 000/508 and # 00059// Date Time Hems/Reason Relinquished By Received By Date 4/3/68 1.500 ##################################
	5# 000/508 and # 000591/ Date Time Hems/Reason Relinquished By Received By Date 4/13/88 1.500	5# 000/508 and # 000591/ Date Time Items/Reason Relinquished By Bate 4/13/58 1.500 MOULL LOOK WARR
	5# 000/508 and # 000591/ Date Time Items/Reason Relinquished By Received By Date 4/13/68 1500 MMM 4/18	S# 000/508 and # 000591/ Date Time Items/Reason Relinquished By Received By Date 4/13/38 1500 MMM Load WWR
	5# 000/508 and # 000591/ Date Time Items/Reason Relinquished By Received By Date 4/13/58 1.500 MOULL LOAD WHR	S# 000/508 and # 000591/ Date Time Items/Reason Relinquished By Received By Date 4/13/68 1.500 MONL Load WWR
	5# 000/508 and # 000591/1 Date Time Hems/Reason Relinquished By Received By Date 4/13/58 1.500 MUNICLAND 4/14/88	5# 000/508 and # 000591/ Date Time Hems/Reason Relinquished By Received By Date 4/13/88 1570 HPULL Load WHYS
	11 84th Aport 2001 81/51/h	11 25h/h Apor May 0021 80/E1/n
Date Time Items/Reason Relinquished By Date		

Water sample 08-127-M201 has two 950ml BWA 08-127-MOOI has two 950ml BNA bothes Time Date Alked anions Acidity Screen Asist BUA RFW Contact JD Okinder Project Number 062,8-14-02 **ANALYSES REQUESTED** Herri Lasto Date Due April 24, 1988 (Received By Custody Transfer Freco'rd/Lab Work Request Relinquished By 9 Client Contact Hususky S LO
Phone 800 - 821 -4528 Matrix | Date Collected | Container/Preservative literpoly/14/03 liter paly 14 NU3 21950 ml Suber/co 42 gal amborgino 000 liter poly/cool Hiterpoly Icoo 21950ml amby 2) Bond amber llems/Reason 1 liter puly Hiter poly #005954 2/4/8 1800 Time 23-61-17 33-61-1 88-61-7 4-19-88 Date 3 SAMPLE IDENTIFICATION 3 3 3 Februal Express 3 (500 158 Received By 08-127-M20 Grounduster / 1440 DS-127-MIDI Gramodunder/1500 Special Instructions: 08-127-MIDI Granduxter Description 08-127-made Graundwater Received By Assigned to (Yames Relinquished By Client ID No. Drum Solids
 Drum Liquids
 Other RFW 21-21-001/A-3/86 0S. x-2852 128522 Items/Reason Sample No. 12852 Cooler \$- SoilW- Water ö Matrix: 8

Wiend

W. J.	<i>5</i> 2		Custody T		ransfer R	∵) ∵a/Lab Wo	X R	edne	St	`		Ì	· · · ·	
TROUBLE DE MADAME		Received By	Зу		Client LSA	Client LSA F OE HL/TS RFW Contac	E (FW Coi	RFW Contact C.W. Kimmin	1. Ku	man	07	. 1	•
	As	Assigned to	0		Phone 200	2-821-4528		roject N	Date Due 1/22/88 (McCo) Long Project Number 0628- 14-02	0626	2-14	10-	3	
		S	SAMPLE IDENTIFICA	ATION			,		ANALY	ANALYSES REQUESTED	EQUES	TED		
Sample No.	Client ID No.	_	Description	Matrix	Date Collected	Container/Preservative	Al Kol Long	Same?	1	1000	12+ 12+	BNA	TX Parish 1/2 BNA MENS AND	A.2.
138519	07-741-MODI 5.W	1.6.W	1405	3	18-88	11 state / 60ll								
						(2) YOM >/HCI				7				
0.700	*		>			950 ml emby His								
1485/8	WC) 100 M. 951-TO	"Sell	1 1440			11 plate foll	>	>						
						12/42 NOAS/HCL								
	}	-	>			Semlamby 142506	-							
128516	07-158-HONI G.W	16.W	1 1450			11 shite lines	>							
						Estandion's IHCI			•	7	W S			
	>		7	7	- 1	Bangashiller								
100523	OP-129-mool Groundwedger	1 Ground	Jucober / 1115	3	4-14-88	1. gal omber/cold						X		
						1 liter poly /cold	X	χ.	X				,	X
C1-1-00-1	>	,	>	4	- 1	liber pali 1 HNO2	۲	_					X	
8/1588	9086-13-M301 Brondwate 18/	Brond	walle 18/ 1450	3	88-81-6	BENT WALLEY				X	X			
		\int				700					1			
						19-88								
			Y			- V								
-			7			/								
									1					
Irix: Soil Water	Drum Solids	Speci	Special Instructions:	_	# 0005 F25-JD0	5-170								
0- Oil x-	Other			_	2000283	_ረ								

Time

Date

Received By

Relinquished By

Items/Reason

Time

Date

Received By

Relinquished By

Items/Reason

Cocoler

0081 83/6/

Federal Express

	RFW Contact C.W. Krumm Date Due 4-27-88 (Julling time)	Project Number 0628-14-01	All Gomes + 1 / Way Pet	102 108				>														F	Date	ANCHO 4000 11:00		
fer Re 1/Lab Work Request	75 RFW Contact Date Due	Project Nu	Pet Purse	١ ١		70		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7.		*	\ \ \ \	1	23	fa.Sa	+	N L		0017 6511	0015 65K	Relinquished By				
1/Lab V	NAFOEHL INTRACTIONS	00-841-4578	d Container/Preservative	(2) 40 July 5/11 C	1/2/06/10	0.0/1	Fram for In 146	1) you Prate /Hel	14-100/100	250 Min 1/4 / 1/4 / 2/4	100	15 la VAL 14	16 00/100	150 / July 11/191	Post H.	750 m lamber 1142	-	(25 K 4-2)		110	Val # 00	items/Reason	╀			
ansfer Re	Client USAP	ON	Matrix Date Collected	4-20-88												>				·	3000	Date Time	-	1900 HOO		
Custody Transfer Re	l by	MPLE IDENTIFICATI	time	1105												7				Special Instructions:	501 = Motory	Received By	15/15	- A - A-		
	DateAssigned to		Client ID No.	105-51/-Waar S			>	05-516-40501			->	05-516-W601				7					DL- Drum Liquids X- Other	Relinquished By	1 5× 1	0		/86
WE			10001	115.030			(1001)	_				138913								rix: Soil	Water Oil	Items/Reason	1 cools			RFW 21-21-001/A-3/86

		•			MH						>			[.]	1			ŀ										Time	11.11	177				
~ t		(Sec. +	λ.		100																				1			Date	12.00	100				_
7	M	(Leanting)	-05	STED	BNA											1													 X	7	+		+	-
•	CHN	7	8-14.	EQUE	V	>																				1		Received By	1	4				1
	6.111.	17-85	967	ANALYSES REQUESTED	149	/			Y								1											Rece	Juni 1	ממומו				
ist	ntact	Date Due 4-17-88	Project Number 2678 - 14-02	ANAL	26	X			7			/																		4			-	1
ənbə	RFW Contact	ate Duc	roject N		45.	>			Y									1								×	X	shed By						
fer Re	œ.			1	Secon	X			>								1	10/							-	12 65K	00136sK	Relinquished By						
ŏ N N	45	40	4528			77,	alul	201		2000	6		12.11.00	506				17%								7100	00	<u> </u>	-	-	-	-		_
'Lab	= HL	bus	271-1		Container/Preservative	LH	Poul	P. 14.	111	anles	1425	146	ran Park	6/1/2 5	L			7			/					#0	•	Items/Reason						
7	AFOL				Contain	164	(1) ES	164	12/26	1,956	11. 406	11,000	(1) 9£0	11 00	0				(55)	$\langle \cdot $						24	\	Item						
Re	1 1/2/2	Client Contact_	Phone <i>800</i> -		Date Collected	-838																						Time		7022				
ransfer Re	Clier	Clier		1_	1.	4-20								>													P.O	Dáte	1.1. 100	Talients.				
Tran			ATION.		Matrix	3	-		$\frac{1}{1}$	=	$\frac{1}{1}$			X							V					J- * , , ,	year h							
ody			NITIEL			Ä								·								$\setminus $					501 = Makey	Received By	1	*				
Custody T			to		Cesculpinon	11105	_	_	\downarrow				_	*			/	/								itructions	105	Rec	FI					
	ed By _		od be			5.6																				Special Instructions:		,		<u> </u>				
	Received By	Date	Assigned to		4	4	+	+	, ja	\dashv	+	709	$\frac{1}{1}$				_			-	$\frac{1}{1}$		1				s	Relinquished By	7	/ Word of				
				Client 10 No		100/11-115-50	+	\Rightarrow	105W-915-30	-	1	105/1-1/2-20	_	7												ım Solids	DL- Drum Liquids X- Other	Relinq	/***/					
23				\vdash	+	105.	$\frac{1}{1}$	c	8	+	<u> </u>	20	-	+		/			_			-	-	1	-	DS. Dru	x- Ort	uc	2	2				
Wit.))			Sample No	1000	1404		. -	X0 7 (100	47.77			$/\! $										\	:=	Water	Items/Reason	costes					
الاخ				"	 	7		۴	7		-	7			/										- /		اہٰ خ	Ite	3					1

Matrix Date Collected Container/Preservative Ret. Purge. A116. Gramin TDS TOC No. Ab Retro Time Date ANALYSES REQUESTED Project Number 0628 - 16-02 **Received By** Date Due 4-27-85 RFW Contact Custody Transfer Re J/Lab Work Request Relinquished By 1 4.50 250 mlember 1/12/24 Phone 800-821-4528 14.501 11,501 4-20-88 BHOWN VORTHCI 300ml pel 111250L 150 mlamber 141554 350 ml entu 142501 YOA 5/11/1 1340 1 VOAS Items/Reason Client Contact 645 Time Date SAMPLE IDENTIFICATION Surface U/ fet (S.W)/1500 Received By Description from Special Instructions: 1400 400 Received By Assigned to へ Relinquished By 01-503-1001 01-503.7401 DS- Drum Solids DL- Drum Liquids X- Other 10174-205-10 01-505-1/201 Client ID No. 91638 Items/Reason Sample No. S- Soil W- Water O- Oil 1289 .. ∢ **Matrix:**

الماري المارية	- T		Custody I		Ister Ke	ranster He 1/Lab Work Request	SK R	edne	st	,		.	3. U	4
	·	Received By _			Client US	FOEHL/TS		RFW Contact CKrumm	tact	Krum	£	1		•
	ů,	Date			Client Cont	Client Contact 6us La	_	Date Due 4-27-88	4-2	7-88	Leller	(Menter)	_	•
	As	Assigned to			Phone 806	Phone 500 - 821- 4528	<u>.</u>	Project Number 0628-14-02	ımber	0628-	14-02	۱ ام		٠
			SAMPLE IDENTIFICATION	ATION				•	ANAL	ANALYSES REQUESTED	QUEST			
Sample No.	Client ID No.		Description /Time	Matrix	Date Collected	Container/Preservative	200	Track L	AW.	All Comme	Z	1 \	1/201	
4112	100/1-105-10	SW.	(1420	13	4-20-88	(2) 40 Prot /HCI	1			2	7		\$ 7007	1246
						12 pel 1008			\ \	>				
						250 mlember / 4.50				-				
						1/7							1	
1000	>		>		>	Lak			 				1	>
108416	100/4-203-10	5.W.	1450	3	4-20-88	13 40 Just 1461		>		-				1
						12. och 10011			5	>	K			
						250 Mentes 14.50			-	-	+			
						Sound sol 145a					\vdash	 	\	
1000	>	\ 	>		>	6								\
100000	100 M- 405-10	1005	1755	B	4-20-88	4-20-88 (2) to al VOA5/461	>	>						
						12 mg / well				\				
						250 lembo 14504				-		1		
						500 lash 14504							5	
	>				>					-				\
						•	,	<u> </u>			H		\parallel	I
						101 6-11-88	88	 	1			+	I	
					$\left \right $				\dagger					
								$\left\ \cdot \right\ $				T	1	
										+	\parallel			
r ix: Soil	Drum Solids	Special Instructions:	•	571	0100	(21)								
W. Water DL-	DL- Drum Liquids		Sealt	五	20100	ØX								

Time Date Received By Relinquished By Items/Reason B Time 1900 1100 42188 Date Received By Relinquished By DL- Drum Liquids X- Other RFW 21-21-001/A-3/86 Hems/Reason W- Water O- Oil

(Z
	ME
	3

J/Lab Work Request Custody Transfer Re Received By

	,			l				_	-	-	L						_	├-	-	_						
_		1							-	Z	-	Z	7	T	33		F	F								
	(hellentine)	ر ح	ED	11		•				>			\	1										7		
n m n	the	Project Number 0628 - 14-02	ANALYSES REQUESTED	100		 								1												
1. Kr	-88	-879	SES RE	WA/			-	_							1								/			
ct C.L	4-27	nber 6	NALYS	SEB											\rightarrow	<u> </u>		_								
/ Conta	Date Due 4-27-88 (A	ect Nur	4	4. P. H. Sc RNA CON							\					1						/				
RFW	Date	Proje		-			•	/								_/	_					_				
M		ل		ne Metels	^	\mathcal{J}_{ℓ}	,	>	B	7		D	7			18					/					
1	40	4528		Container/Preservative	Hcl	Ly las	40/24	HCI	dolla	12,50	#1	de 161	4.50			1	17 h			/	/					
DEH	643	-123		tainer/P	pela 1	500	0 de 1/1	L. 1	950 02	1 1917	nd !	50 Sul	alala	0		1	75								Λ,	
SAE	ntact	20- 5			7	12950	11	16.0	12/5	1	77	49	7		_	-	7	/ હ	\ /	/					651	}
Client USAFDEHL	Client Contact_62	Phone 800 - 821 -		Date Collected	4-20-88		→	-20-88		->	-20-58	_	→						X						X590100	•
ਹ	ਹ	든	z		1			4-1			4-2				.			_/	/ \	ackslash		_			At A	,
			CATION	Matrix	3		7	/4	\dashv	7	3		7			-		/		$\frac{1}{2}$		-	_	_	S. 6	
			SAMPLE IDENTIFIC,	the	1420			50			7														:S:	`
			PLE 10	Description	1	_	>	1	_	>	17.5		\rightarrow				/								nstruction	
ed By		ed to_	SAN	۵	5.14			S.W.			1177	į				Λ						\setminus	•		Special Instructions:	
Received By	Date	Assigned to		<u>o</u>	100		-				Tog				-	4				-		$\frac{1}{1}$		\dashv		
				Client ID No.	105M-105-10	+	>	01-502-Wag1	+	7	Soft -WOOL	\dashv	7		/								$\setminus \mid$		ım Solid: ım Liquic	ier
HINDRACODEN INNE			-	-	7	-	-				0	\dashv	\dashv	-	/	-	-		_	_	_		$\frac{1}{1}$	-	DS- Drum Solids DL- Drum Liquids	ž Š
)				Sample No.	7/20		¢	1827	.		242			$/\! $											ait ater	
				S.	9			0			ğ		/												Matrix: S- So W- Wa	

Time	W://				
\vdash	11 sach	_	-	-	-
Date	3	_			_
Received By	Shownshot				
Relinquished By					
Items/Reason					
Time	1900				
Date	H2/58 1900	`			
Received By	ES ES				
Relinquished By	Burn Sturiel	, 0,			
Items/Reason	Tuela				

Wife		Custody Tra	nsfer Re	nsfer Re 1/Lab Work Request	ork Reques		10 10
	Date	by	Client Contr	Client Contact Hugustus L	RFW Contact 7.	toril 27, 1988 (14) 1ding	tolding time
	pauliued	SAMPLE IDENTIFICATION		3C5h-128-1	Project Nu	Project Number 0628-14-02	•
Sample No.		Description / Time Matrix		Container/Preservative	CODNA		Se/a.
10070	01-505-10	VIII- meter 1130 W	88-02-4	11. Hec pol/11.54	X		
				*		X	
		>	>	Liter pay / HNOS		X	X
							1
							र्थ र
							3
					00		1
		/			XX XX		Z
				14011			7
							4
		(
							5
							7
		7					
							<i>y</i>
					/	 	2
)
						1	1
Matrix: S- Soil DS- W- Water DL- O- Oil x-	Drum Solids Drum Liquids Other	Special Instructions: Soul	#0005509	90			
tems/Reasc	Relinquished By	Received By	Date Time	llems/Beason	Relinantehed Bu	-	F
1 cooler	1/0/ John J. 10/0. D.	Lodon Pagnas	+÷		(a paigh	, XV.	4
		TOWN TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY	2011			AND COMO HO	00-11 3/50
						•	
RFW 21-21-001/A-3/86	98						

Custody Transfer Re J/Lab Work Request Received By

Phone 800 - 821- 4528 Client Contact / tugustus

Assigned to

RFW Contact J. D. Olander

Date Due April 27, 1988 (Holding Time)

Project Number Olas 8-14-02

•	12. to				乂				X				X				X	1			1	
	<u> </u>			X				X				X				人						
STED	TDS Scen As 5c			X				X				X				X						
REQUES			X				X				X				X							
ANALYSES REQUESTED	Comm		X				X				\(X	. ,						
ANAL	A1160		X				メ				X				X			•				
	Purg	Х				X				X	,			X					0			
	Rush +	X				X				X				X			70	_	0	d		
	Container/Preservative Purg Hillow HIRA Comin	W 4-20-88 204011 VOR/HC1	liter poly/cool	111 Her 2014/14102	105211/125mp 211056	a YOUTVOR! HCI	16, ler 06/1/Cool	11:4er 0014/14-003	950 ml ambor/11,50	dy you vory I'VCI'	11 Her poly 10001	11: Her oals, / HNOz	Bonol amber 14,50	12 40 ml VOA/HCI	11: ter out, 10001	11:40 00 14083	950ml amper/1450		1 6			
	Date Collected	4-20-88			\	88-02-4			\	38-02-h C	ŀ		\rightarrow	88-02-4			\			,		,
ATION	Matrix				1	3	_		\	7			Ş	3			\rightarrow					
SAMPLE IDENTIFICATION	Description	28925 03-509-was Surface Water/ 1500			\	02-508-4001 Surface witer/1200			\	1903 02-504-wood & Swhee weter 1820	-		>	128922 22-506-wool Surface weter 11015			>)	Coorial lacturations:
	Client ID No.	03-505-60		,	1	02-508-00			>	02-504-WO	• .		>	22-50%-wa			>					
	Sample No.	128925				128924				198923				138922								Matrix:

Special Instructions: Seal # 0005956 DS- Drum SolidsDL- Drum LiquidsX- Other

Time Date Received By Relinquished By Items/Reason 0061 |55/12/2 Time Date (Janos Received By Relinquished By Items/Reason S. Soil
W. Water
O. Oil

								ì	1	
N.Y. D. L.	771	Custody But Custody	Tran	Stor Rec	4	ork Requ	uest			
	Dat	1	1	Client USAFOEHL	9FOEHL 175	RFW	RFW Contact C.W. Krumm	C.W. K	CHMP	4
	Ass	Assigned to		Phone / 422 //2	401 043 40	_ Date [Oue 4/2	3/88	7	13
		SAMPLE IDENTIFICATION	ATION		FILLUME 1-800-821-4578	– Projec	Project Number 0629 - 14-02	r 0628	0-11-0	7
Sample No.	Client ID No.	Description / +; M. P.	Matrix	Date Collected	Container/Preservative	Runs	ANA	LYSES	ANALYSES REQUESTED	
128929	10 de		1		frond	drond Alk	ZAIONS	H	TDS 16. 31.0	
	× 2/5-10	VI-SIA- FUOI Juctace Water (SW)/ 1630	1		4-20-88 15 40m YOK /HCI	>;				_
					14 poly / Cold	>	<u>`</u>			_
10000	>	\			950 mlember 14504				>	-
T	04-512-110	1 541 / 1650			2) 40m/ YOA 5/ HCI	>				1
					11 roly 1400	>	>	1		1
2000	*	>			950 Jen 1.14 cm		-			
148430	18420 at 512-Mag	54/1615			(2)40-1 VAX/11/1				}	
	•				11.11.10			1	-	
	^	\			250 1. 1 Wen	}	*	>		
	104-512- MIDI	15 W. / 1630			12 40 1/01/11/11/11/11/11/11/11/11/11/11/11/11				7	
138936	8936 dr510-160	5.4.7			1) 40 1 VODS/401	1				
					16 rd 1600		\			+
0000	>	>			950mlan / H.S.A.				1	1
1007016	04-511-NODI	S.W / 1650			12 Gent VOA5/HCI	>				
					12 plate	<u> </u>	>	>		_
198023	*	\			Bon lamber 12 504				>	
	C4-513-11001	5.4. 11600			1240 NOA5/HC1	>				-
					14. full lull	7	>			
	>	*	>	→	950 / 1/4 SA		,			

DS- Drum Solids Special Instructions:
DL- Drum Liquids Spall #6005910
X- Other

Matrix: S- Soil W- Water O- Oil

Ad national designation of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the	Received By	nate d	Time	110.000				
	()			items/ Heason	Relinquished By	Received By	Date	Time
12 XX	F/S	11.12				10 11	1	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	100	1/2/12/12/12/12	200			JACON JACK	1200CF	
7		<u> </u>					* C. A.	777
RFW 21-21-001/A-3/86								

23

Client CANE DENY TS RFW Contact Custody Transfer Re Received By _

	Date_ Assign	ned		3 5 E	lient Conta	Client Contact Cugus of L	M 0'	RFW Co	PFW Contact J. Okn Ker Date Due 4/27/88 (Helly T.	28 (4)	Change The Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table of the Table o		٠.
	1.	SAMPLE IDENTIFICA	DENTIFICAT	TION	,			Project n	Froject Number 0648-14-02	1-88-1	4-02	1	
Client ID No.	ė	Description		Matrix Date	Date Collected	Container/Preservative			ANALYS	ANALYSES REQUESTED	STED		
14.35 05-130-11201	201	Crowbister	1330	1 / 1	100	1/3/190 1/1/11/11	drom	190	46 WH	12 deru	METAS Hadia AIK. TOS	A1K. 7	205
		_	╁		000	2710ml Var Intel	X //						
_				1		25001 Ocha 14504	Fos	Х	外				
						500ml Plate 14,564	64		×			\dagger	
\mid						1 L Plustic /11.50,	6,		×				
						16 Motic 1440.	1,			>		+	
 	T					950 1 debyl 1.504	0,		-	<u> </u>	;		
05.120 14.01	1	0000				11844/08D	, (-		<	1,	
12.00	3	Company of 1	220		4	12)40ml 10A/401	· ×		-			\downarrow	4
+					7	250 ml Orber 14.50	10	×				+	
+	1				7	500 ml Rufe / 11.50 m	2	+	>				
+	1					12 Pate 14.504	22	-	>		+	+	
-	+				/	1. 18 Dil 1400.			↓			+	
+	\dagger				-0-	100110101010	100		-	X	†		
- :	1	> (14 Ph. A. 10.00				1	\downarrow	+	T
02-1X1-MW1	1/8	Comment word	1330		4	12) 40m1 NON /4C1	\ <u>\</u>	-	-	1	+	X	J
+	\dagger	<u> </u>			2	250 ml Omber 14.50	1 2			1	+	+	T
+	+				3	50 m/ P/ 8/2/14/60		\downarrow			+	+	
+	+				7	10 Pastic 14.50		-	1	1	+	+	T
+	+		+	1	7	11 Pl. Pil HNO.		-	1	 	+	+	T
	1	*	>	7	16.	450 rald bellison	1,4	_			 	+	
DS- Drum Solids DL- Drum Liquids		Special instructions:	BC	Jer.	CV ## 15	12,00 / 24/200	7	1 00	1/2/	1 2	1	-	7
er				P		クンソンフィ	ore 1	35	ノンタル	L			

Date Received By 00555 KTF on 00556 KTF Relinquished By Items/Reason Time Date Received By Relinquished By Ilems/Reason 001/.

		7		-	+	+-	+	┼	╀	\perp	$oldsymbol{\downarrow}$	igspace	↓_	\downarrow	\downarrow	\perp	\Box		L	$oldsymbol{\perp}$	\perp	\perp		$\perp \! \! /$		
· · · · · · · · · · · · · · · · · · ·	`; ,	TIMO I	_1																							
	. 1	. 5	30	3							T			T		1			-		1	\dagger	1/	+	\dagger	1
- '	10	12	14-		<u> </u>	+	-	-	-	\vdash	-	}	\vdash	+	\downarrow	+	\dashv		_	_	-	_	1	_	\perp	-
	ind	\mathcal{I}_{i}		DVRC.	arem		L				×											/				
1	10	88	Project Number 26 28 -	MACHINES REGUESTED	3				×						T				-			1		T		
ا پيد		Date Due 4/27/88			4/K:				~			-	-	\vdash	+	+	+				/	_	-	-	-	1/2
ues	RFW Contact	Oue 4	יין אני מיין	1					_	_			_		igert	1	4	\dashv		-/	_		_			17
ed	BFW.	Date I	Loje	6	Š	×		X	•	×										/						100
fer Rec 1/Lab Work Request	_		_ _	Comine to			X		X	•										<i>-</i>						00556 KTE
I %	1/2	46		alive	0	30%	Z	3	1	CO	173					\dagger	\dagger		/							'y
ab	1	46.30		Container/Preservative	leeles	1300/	lat	177	1/0	ec /ce	*/WC	`						X								\$
[]	DE		1	ainer/F	1000h.	Pu19	10 Plake	lay almber	LP Pasti	12 g Coluber	y wx			:			, ا	/	į							10
R	7 7	Cilent Contact (Lugue 10)	90	Cont	168	2) 850m/ Ontal	100	12	16	70 7	2) 194					1	M									Tay # 3 00 555 KTF,
Re	7	Son:		ected	188						7							1								Q
er	Client	ollent Phone		Date Collected	n	1	+	+	\dashv	\dashv	>				, ,										j	77
y Transfer Re		_		1	7	\dashv	+	+	4	4	4	_	\downarrow	_		X	_	1	_	\downarrow						Jas J
Tra			FICATION	Matrix	3	\Box				\uparrow	>					_										
dy					330		230		330		330															رور
Custod			SAMPLE IDENTI	fion	7		7		7		13															-
			APLE	Description	73	7	2	*	A AM	70	7			1												struction
	Received By Date	od to	SAI		Sombustu		J. Jan	\sim	James	-	3			$/\!\!\mid$												Special Instructions:
-	Heceive Date	Assigned to	-		7	1	1	4	7	1	[How		//	\perp												Spe
)	ĬÖ	As		Client ID No.	2-130-1201		130-1101		7		1041-051-50		1													ds ids
				Client	130		06/1	7 (2017	7,	2		/													ım Soli ım Liqu er
3			-	1	7	1	J	22		- 1	9	\forall	+	-	-				+	+	+	+	+	+	4	DS- Drum Solids DL- Drum Liquids X- Other
ا اص				Sample No.	27	2021	1	Spe	1	120		Λ														
2				E [100	327	777	123		801	2 12															Matrix: S. Soil W. Water O. Oil
			L.				⊥_		1		7				\perp									\perp	<u>]</u> :	ဇွန်လဲ

(_	3
	155 155 155 155 155 155 155 155 155 155

Received By __

Date

Custody Transfer Re 1/Lab Work Request

Client Contact Gus La Phone 800-821-4528

Date Due #-27-88

RFW Contact_r

		Ket										>	1								
		100				\ <u>`</u>					>										
02	TED	1/2			>																
8-14	EQUES	X		/																	
Project Number _ 0628-14-02	ANALYSES REQUESTED	AIK Grand 7							<u></u>					1	\						
lumber	ANAL	AIK							\ \										./		
roject N		Phuye 1	÷					/						,	5						
ď		18+ 14-10	>													1		/			
Phone 800-821-4528		Container/Preservative	(2) 40am 16 A / HCI	12 pt / w20	250 m Jambes / 1653	Seanland Hisch	950 Jenla /4.500	2 NONS	12. 00 les / 1.00	25000 1 males 14.50	BEE	Parke			1 / 4	166 4-6	021				
Phone 800-		Date Collected	1 20-88			7		188-02-4				\									
1	ATION	Matrix	\mathcal{S}				>	73				->						\			
Assigned to	SAMPLE IDENTIFICATION	Description frame	S.W. / 1030				>	S.Wl. /1000				Y									
Assig		Client ID No.	os-514-Magi				>	05-515-Wool				>									
		Sample No.	128937					128938 05-515-WAVI													Matric.

Special Instructions: $S_{ex}/\#000595\%$ DS- Drum Solids DL- Drum Liquids X- Other

S- Soil
W- Water
O- Oil

Time	(C.11)2/ce/			1
Date	<i>2917/h</i>	9)		
Received By	Ment Lest			
Relinquished By		•		
Date Time Items/Reason				
Time	0061 89/149			
Date	44/55	/ /		
Received By	23 July	,		
Relinquished By	Burn S Fried	91		
Items/Reason	1 woln			

W. C. STAN		Beceived By	Custody Transfer Re	Tran	ster	Re l	fer Re 1/Lab Work Request	ork Reque	1 7%		\ .	ズ
	Date					לן ה ה	Client Contact 6	RFW Contact	· • • • • • • • • • • • • • • • • • • •	Krany	۱ ـ	
	Assi	Assigned to			Phor	16 800	Phone 800-821-4528	Date Due Project Nur	Date Due 7-22-55 Project Number 062<	-16.	the two	•
Sample No.	Client 10 No.	SAMPL	SAMPLE IDENTIFICATI	ATION					ANALYSE	OUF	\	
178027		Description	iption	Matrix	Date Collected	lected	Container/Preservative	Metal A	70		1	
1000121	05-54-Waar	S.W. 4	1030	7	4-20	20-88	12 pal / HCI	-	100	1	Der Cap	D WHS
					T		2) 950 m Genter (col				7	
128938	05-515-14/401	7/ ///	7	> -			14 paly 14 504				>	\
			1	1-	88-07-4		16 65 1/101 /	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ \	>		
	>	>		5	7		2) Clansantage		1	1		
					7		1 1 per 112504		1		7	
/											1	
						1				1		
		/		+				88	-			
						1	1/1/	776			-	
				/			15K2					
											-	
											+	
											1	
											_	
									4		1	
	\			-						1		
				-		-			-	/	Å	
irix: Soil DS-	Orum Solide	Special Instructions:	ions:	77	N.		(-		-	
W- Water DL- 0- Oil X-	Drum Liquids Other		7	r Y	Ğ	000578	X X					
llems/Reason	Relinquished By	Ву	Received By	F	Date	Time	llems/Reason	Relinaniehed B.	í			
1	V	N	2/1-	+	╁			nemiquisned by	ğ	Received By	Date	Time
l descon	Cherry les	wall the 1 s	7	*	188/	1900			Mon	Keth	28/28/16	00:11
					+						,	
				+								
				-	-							
RFW 21-21-001/A-3/86	96			-								

Pac) of 2 700 RFW Contact J. D. Olander
Date Due April 27, 1988 (Holding Time)
Project Number 2628-14-02 Time Container/Preservative Rugal Pura Alkal Comm 7DS COD NH3 Date X **ANALYSES REQUESTED** X Custody Transfer Re. 1/Lab Work Request Relinquished By Ti Client Contact / Hugushus LO
Phone 800 -821 - 4528 2140ml. VOH/14CI 11 fer poly/ lb 50/4 250ml amber / 1125Uy 257) ml combor / H25 Wally Inst 6) 40 mg VOTE/ HC/ like poly 1000 liter poly/cool 2140me voft/HCl Items/Reason Federal Expressed "/2/88 1900 Matrix Date Collected Time St45000 # Toas 128939 DE-517-WODI Surface with 1155 W 4-20-88 83-02-1 88-02-4 Date SAMPLE IDENTIFICATION 3 3 Jurtuse witer/1340 Received By 25-518-W301 Surface with 18/1340 Special Instructions: Description Assigned to_ Received By Relinquished By 55-518-Wool DS- Drum Solids DL- Drum Liquids X- Other Client ID No. flems/Reason Sample No. Cooker Water Oil Soil Matrix:

- `~,				(i			}		12 XX	X	+3	16
اللار كالم	Received By	Custody Irans		6 8#7 04	iter Re 1/Lab Work Request	rk Requ	est	16		``~. 		
	Date		Client	Client Contact Augustus	sheet Lo	- Hrw Contact	HFW Contact	المكان	7. 1988 (Holding Time	(HPIP)	うな	3.
	Assigned to SAI	SAMPLE IDENTIFICATION		200-83	1-4528	- Project	Project Number 0628	3790	0-1/-	الم	· >	`.
\vdash	Client ID No.	Description Matrix	Date Collected	-	Container/Preservative	NO- 110-	150	Metel Pb Hg	ANALYSES REQUESTED	- N		
138939 05-	25-517-WODI Sur	fuce unter/1165 W	4-20-88	88 500ml	100 / 1250		_	36 182	ydre DNH	1		
		,		Hiter poly	/\lps		X	X			1	
	1,		·	950m	omb.				Х		7-	
1180100		- 1	>		3) 950 mlamber/cop				X		12	
2	05-518-wool Jurt	Surface water/1340 W	1-20-88	<u> </u>	=1	X X)) 	-, 	
				liker puly			<	X		7	4	
	,	2	- -	Y3Und amber	amper/11.50				χ X	$\frac{1}{1}$	1	
	1	>	>	1067 (10)	a) Tour comberica				1	\downarrow	1	
								+		1	V	
							-	*	1	\bigvee		
					C	0 / 71						
			V		1	1						
			\			/						
								/				
									$/\!\!\!\!/$	1		
										1		
											1	
rrix: Soil DS-		Special Instructions:	240 KG	140				,				
w- water DL- Urum O- Oil X- Other	Drum Liquids Other	טיי אפשט	5	0/								
Items/Reason	Relinquished By	Received By	Date Ti	Time Items	Items/Reason	Relinquished By		Received By	ed By	Date	Time	
Cooler (a D. Olaslar	Faleral Express	006 ss/h/h	00				ew.	Look	Sept.	Qr-//	
		-	•							•		
				+								
RFW 21-21-001/A-3/86												

Client ID No. Star Cace Contain Matrix Date Collected Container/Preservative Arrange Burg Det Interest Bolt No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scorn Sells BNA No. 100, Scor Custody Transfer Rec. J/Lab Work Request 500ml anber / Toch 14250 [ECNII] KIND JA!!] 950 ml amber/14504 500ml poly / 11-50 2) 40, 1 VOA / HC 950 mlomber / 11,504 3) 950 ml amber/1001 500 nd amber/1450g 2) 950 ml comb n/cool Hiterpoly / HANDS tosyl/hod moag Client Contact Auguskus Phone 800 -821 - 452 Spal # 0005950 4-20-88 SAMPLE IDENTIFICATION B Surface 4 40th /1620 1620 Surface water Special Instructions: 1386 January 10001-813-00 Cyps C Received By Assigned to. Sample No. Matrix:

X

哉

X

X

Pag of 2

Brow Contact J. Olander Date Due Harif Time)

Project Number 0625 14-0

-4528

ANALYSES REQUESTED

8

Date Received By Relinquished By Items/Reason Time Federal Expresso 46188 1900 Date Received By Relinquished By DS- Drum Solids DL- Drum Liquids X- Other Items/Reason Soil Water Oil

W. SW	Received Bv	Custody Transfer Recall Allab Work Request	nsfer Re	1/Lab Wo	rk Request	F	Jaga X 0	D .
	DateAssigned to	' ;	Client Contact Aug	Client Contact Augustus Lo Phone 200-827-4538	Date Due HOLL	pri 2:	1988 (Holding Time) 28-14-02	· ·
Sample No.	O Citation	NIFIC,	_		A	ANALYSES REQUESTED	D.	
h	Circii 10 NO.	. 1		Container/Preservative	COD NHS AIK	Altal Commons TDS		T,
	06-520-WW Sur	uce with / 1645 W	35-02-6	1 literal/11-Say	X		,	1
T)	1.	→	7	\	X	2000	مد
100140	DG-519-was Jurace water	4 water / 1620 W	88-02-4	liter poly/14,504	X			
	*	}	*	1 liber poly/ cool	X	XXX	<u>/</u>	
								ス
					000			
					0011	\		
		/	\ _/	777	1			T
			7					T
		Ċ		Į,				T
								T
					/			
		*						
						/		T
						/		
							/	
Matriv:							/	/
ater DL-	Drum Solids Drum Liquids Other	Special Instructions:	# 6005950	056				
llems/Reason	Relinquished By	Received By	Date Time	Items/Reason	Relinquished By	Received By	Date Time	<u> </u>
corter (Lon D. Clande	LebulExpress	4/21/58 1900			Mari LASTA	18	8
		·						<u> </u>
								T
								Τ
RFW 21-21-001/A-3/86	96							7

_		ド		L			>	[]	9	2																Time	10:11			1
,		Hoker)						/	\\	(1)	// ///	V N	/a			/									Date	Blceth	-		
		1)385	Project Number 0628 7/4-04											,						\downarrow	\downarrow	\downarrow	\iint			, ,	QDF			
	RFW Contact J. Oknder	27,1986	Imber OGCS 7/4-0-	7 P			X			X			×	,		×	-		X	_	_		\parallel	_		Received By	Wh			
Í	7.0	pril	Der (C) (S)	1 1/K	5	X			X		-	×			<u>\</u>			X			_	-	1	-		Œ.	Meni			
uest	Contaçí	Date Due April	ct Numb	20		X			X			×			X	-		X				-	1	4		Ву				
Request	BFW.	Date	Proje	Purge 411.1		X			X			X			X			X				4				Relinquished By				
		00	ام				70	X -\		11.50	X		1501	, <u>,</u>	, V	17	, X		7	X	<u> </u>	4	1	$\frac{1}{2}$		Reli				
ab M	ナた	153	70	Preservati	D#/K	$\sqrt{c\omega}$	4c/H-50	-w]	Leald	le 14	'04 ME	Lale	S/// 101	YON/NC	Elect	her felst	14/401	clale	Sec / 11/50	14/1/6		U		424		eason				1
T/r	#36:	Client Contact August	170	Container/Preservative	2)40ml (b)+/HC)	liter pol	950mlomber	1) 40 m / Yol	plute	Stomla	x) 40m/V	1466	Son Ida	404	1 ples	2 mld	6)40m/ va	Laler	2.10	(2) 60m/ VVA		To the second	1	0005924	1	Items/Reason				
3ec.	USIT	Contact	200	-	-88 (2		8	.]	7	35	88 12	7	25	(2)		156		1	18	(Z)		Ť		9	 	Time	1630			- 4
Fransfer Rec., J/Lab Work	Client	Client	Phone	Date Collected	4-20-		7	4-41-88	f	>	नीयर्रि	_		2/11/2			58/12/F	<u> </u>	*	3/1/2			-	A B		Date	Sylve!			- [
Frans	-		ATION	Matrix	\mathcal{A}		>	3		>	M	4	Þ	3		\$	Ž		\$	3					-		7	\dashv		1
Custody T			SAMPLE IDENTIFICA		0830			22			1						$\left \cdot \right $			2	\parallel			200		Received By	ZX.			
Cust			PLE IDE	Description	wider		_	1 0830			15.15			1515			1515			121				structions		Rec	13			
	ed By _		—o≀na SAMI	å	Scoundwider			7			6. W/		>	M		>	MI		>	2.0				Special instructions:		_		+		-1
	Received By	Date	Assigned to	ė	_ ¬		-	1001	+					1961	•	+		-	+	\perp	\parallel	1		-		Helinquished By	Liens .			
				Client ID No.	07-103-1100		*	1004-401-20	+		101W-781-LO	+	>	07-136-Mge1	+	>	07-136 Maga	+	>) 	07-1%-4401				DS- Drum Solids DL- Drum Liquids	iner	Helin	4			
	THOUSE COMPOSITIONS		ļ	 - -	4			3		7	4		+	$\neg \tau$			20		Ollar	$\neg \neg$		-	-	08- D	\ \ \	ason	7	1	1	-1
				Sample No.	hbre1		6	1484		000	987			148.446			1984		1006	000				Matrix: S- Soil W- Water	5	Ilems/Heason	cooler			
رح								工									ユ	\bot		ユ		\perp		کجنچ	L	止	ユ	丄	\bot	 _]

The LE							
-0 F	BMA					X	11
Days 1 1 1 22 1988 (146/4, 1) 28-14-02	TDS Hydro Hurg TOC					X	
Pays Dlander 7,198841	STED Purg Ibeleca				X		
12-18-18-18-18-18-18-18-18-18-18-18-18-18-	ANALYSES REQUESTED	X	X	X	X	X	
Sep.	YSES	X	X	X	XXX		
ast Intacts e Hou	C.m.m.	×	X.	X	X		
client Contact Hugustus Lo Phone 800 - 821 - 4528 Project Number O628 - 14 - US	And And Com	X	X	X >	X		38
A X 10	X	X	×	X	X		
Wor 75 Lo 528	Container/Preservative	- 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	9 3 X	1 00 T	LES SE	14.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50 15.50	
/Lak	J Var	950 in Comber/ HSS	1 liter poly/cocl 950 ml ombr/1294 2)40 ml VOH/HCI	1 liter poly / cool 950 intambre/11159 2240 int WOH / Itel	11 11 for party (600) 950 ml amber / 15504 (2) 40 ml vo 14 / 146) 1 liber poly (600)	950 ml amber 112504 250 ml amber 14504 2)950 ml amber (cool	
Hr Och	Contai	11:18 10:20 10:40	950 m	950 h	250 ml 2140 m	960ml 250ml 2)950n	
fer Rec 1/Lab Wolfert (SMF 05 HL) TS Client Contact (Hugustus L Client Contact (Hugustus L Phone 800 - 821 - 4528	Date Collected Container/Preservative	88-02-	88-02-	33-02-	23-172		
<u>S</u>		1	3	n-4	4-20		\mathbb{H}
Custody Trans to to	Fine Matrix	3-	3-	3-	3-		
tody	1 32	0251)20	Surface wither 1405	52H 1426	0211		
Cus	Description	e wash	- Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till - Till -		1 3 -	++>	
Received By Date	Sind	07-522-wool Surface water	Surfa	yur f unx	Suchae		
Recei Date_ Assign	No.	l dox	mod	7000	W.001		
	Client ID No.	7-522	-523-	-824-	1605	+>	
William Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contra	19950 OH-621-WOOI Surface with		1895207-523-wod1	2895307-524-WUGI Surface water	2892/01-605-W001 Surface water		
	Sample No.	3895	286	384	380		
						1 1 1	Matrix

Special Instructions: Seal # 0005909

D Olander Halding Time Page 170f 2 NH3/70C Time Date Tring Matrix Date Collected Container/Preservative Purfor Pat Malan Alka Comm TDS COD Project Number 06 28 - 14-02 **ANALYSES REQUESTED** Received By Date Due April RFW Contagt Custody Transfer Rec 1/Lab Work Request Relinquished By Client Contact / Hugus/LO Phone 800 -821 - 4528 250 mlamber/112 05-233-m401 Groundwater/ 1350 W 4-22-88 2240-11004/HCI 1) ter poly//450. 05-133-M301 Groundweter TE/1140 (U | 4-22-88 (2) 40 ml VO A/1461 2)40 m (VOH/)KI liter poly/cool 300 360 ml amber llems/Reason like poh Lliter poly Special Instructions: Secul # 2004623 Time 88-22-HM Date SAMPLE IDENTIFICATION 25-133-maps Graundwater/1140 Received By Description , Received By Assigned to Relinquished By Client ID No. DS- Drum Solids DL- Drum Liquids X- Other Items/Reason Sample No. 129019 29018 12921 Water Matrix:

7	1.			3-1-		.		$\overline{}$	Time	
4	آلها جاريار چ	Ro BNA	X	X					Date Ti	
12p	RFW Contact V. 1. Clander Date Due Horil 29, 1988 Project Number 0628-14-0	ANALYSES REQUESTED	X				/		piras	
	pri 29	Pb/Hg (As)	X	X	+				Received By	
uest ,	RFW Contact Solution Contact Solution Contact Manager Project Number	ANAL 3 SCEEN	X	X		10			36	
Work Request	Date Proje	NO2 NO3 X	×						Relinquished By	
_	2/5m 8/528		# See 16	14N033					Rei	
1/Lab	August - 821	Container/Preservative	11 Liter poly 950 ml comb 12 gal amb 500 ml soly /	iterpoly/17 50 ml amber				23	llems/Reason	
Re(Client Contact A	- · · · · · · · · · · · · · · · · ·	11 to 950 m 950 m 72 gal 88 500m	4:17 4:0-82				940	Time 1te	
Ser		Date Collected 4-22-88	722-4			MA		#000462	Date Ti	
/ Tra		Matrix C	3					ral	3	
Custody Transfer Rec	toSAMPLE IDENTIFICATION	plion / Time	0H11 Jay	- .				ons:	of Express	
- '	∑	Description	Johnson					Special Instructions:	Fedens	
Received By	Date Assigned to SA	No.	m 001 (e					_	Chander	
B		Client ID No. Description / OS-235-MODI (Scoundward	05-133-m001 Genurduncher					Drum Solids Drum Liquids Other	Relinquished By	
		No.	12					DS. X.	leason ex	3FW 21-21-001/A-3/86
		Sample [230]	13901					Matrix: S- Soil W- Water O- Oil	lems/Reason	3FW 21-21-(

(料
~	

Received By

Assigned to

Custody Transfer Real John Work Request Client USAL OFAL TS RFW Contact J.D.

Client Contact Augustus Lo Phone 800-624-4528

Date Due April 29, 1988 (Holding In. Project Number Charles REQUESTATIONS ANALYSES ANALYSES REQUESTATIONS ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES 88, Description / Time Matrix Date Collected Container/Preservative Burge Alkal Comm 755 Petro 750 mlamber/169 750 m (omby (/ 11-3 960ml amber/145 1346 ml VOP! HC (2)40m (4019/HC) 950 ml omber/11,50 liter poly 1000 2140m1 WOTF 1/14C liter poly 10,00 2)40mlomby/ HC liter poly (cool 2) 40 m VOPF/IKI (2)40m (WH/1HC) 350mlambic liter poly liber poly A-22-4 88-22-4 M 88-22-4 83-22-6 4-22-88 8-22-88 3 3 3 SAMPLE IDENTIFICATION 3 02-103-M401 Groundwater (B) 1555 07-243-mos Grammawher/1530 1420 1515 07-237-mal Graunducter/ 1610 1555 07-142-Moo 1 Grounduxyec/ 27-140-MOOI Groundwater 07-103-mail Graundunter Client ID No. 29020 128023 29025 Sample No. 129024 1392

Special Instructions: DS- Drum Solids DL- Drum Liquids X- Other Soil Water

S=2 #004623

Lan Federal Express 4/21/8 1900 Reinquished by Received by Using 4/3/8) 	V. Oulei			أ		0 - 11 - 11 - 12 - 13			S I
ander Federal Express 421/96 1900	Items/Reason Relinquished By	d By	Received By	Date	- ime	Items/ Heason	Relinquished by	Received By	Dale	1
)/(I'''//]	1 cm Con		1/22/86	1000			4	4/3/1/2	0330
			1	/				/		
1 1										
							-			
						/				

	Project Number 06 28-14-02	ANALYSES REQUESTED																/		F	, Ag no	Au Chra Squa 12/13 1110		
fer Re 1/Lab Work Request	BFW Contr		Port not		/			1							/	<i>y</i>				Relinguished By				
J/Lab W	Client Contact Augustus L	ŀ	Container/Preservative	9 Dul But 14.2.1	500-1 Ple Sie /1. Son													•	5565185	llems/Reason	1_			
ransfer Re		L	Matrix Date Collected	W 1/23/88	*	-						A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	- 2					1	34	Date Time	1.	100		
Custody Transfer Re	c	NTIFICA	Description	who 10945	*				/	1			1	A				Special Instructions:	びる)	Received By	4/1/2			
Received By	Date	S. S. S. S. S. S. S. S. S. S. S. S. S. S		15-107+1001 Good	>													-	US- Orum Solids DL- Drum Liquids X- Other	Relinquished By	1.4%	-,		
W. C.		Sample No	Π.	129059	/													rix:	S- Soil DS- D W- Water DL- D O- Oil X- O	Items/Reason	Coches			RFW 21-21-001/A-3/86

Received By Date Assigned to SAMPLE IDENTIFICA Client ID No. Description 2331-Aut Evanduates 1000 Will-Mail Granduates 1000 Special Instructions: Continue Interview By Special Mail Action 1000 Will-Mail Granduates 1000 Will-Mail Granduates 1000 Special Instructions: Continue Interview By Special Mail Granduates 1000 Will-Mail Granduates 1000 Special Instructions: Continue Interview By Special Mail Granduates 1000 Will-Mail Granduates 1000 Special Instructions: Continue Interview By Special Mail Granduates 1000 Will-Mail Granduates 1000 Will-	rk Request RFW Contact T Clander Date Due 4/30/8 8 Project Number Class 8-14-02 ANALYSES REQUESTED	Higher NOT							Relinquished By Date Time	vine 4/25/88	
Received Date Assigned Assigned Assigned Assigned Assigned Assigned Assigned By Relinquished By	Sient USAF OFML TS Client USAF OFML TS Client Contact duques & LO Phone SWD- SEL-4528	Matrix Date Collected Container/Preservative W 4/13/88 95001 Audit/1894	1/2/88 980 1/4 /4 /4 /4	,		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		18/	Dale Time Items/Reason		
	eceived ate	Exem Lister	Composter /11					Special Instructions:		K. Fader Felex.	

Custody Transfer Re. 1/Lab Work Request By Custody Transfer Re. 1/Lab Work Request By Client (15th 25th 175) SAMPLE IDENTIFICATION Profice Consociety 15th 15th 15th 15th 15th 15th 15th 15th	
Sign Re a 1/Lab Work Request Client USIF CFIFL TS Client Contact Lyabers Le Phone Sco - 8-21 - 45.38 Client Contact Chyabers Le Phone Sco - 8-21 - 45.38 ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES	
Sign Real Mork Request Client USTP CFILL TS Client Contact Programs Client Contact Programs Client Contact Programs Client Contact Programs From Project Number Cloud Strate ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES	
Sient USITY OF 14 L TS Client USITY OF 14 L TS Client Contact Pugashus Los Phone Soo 821-4528 Phone Soo 821-4528 Phone Soo 821-4528 Phone Soo 821-4528 Project Nu 123/88 [1844]; [24] 123/88 [24][140] 123/84 [24] 124/8/170 Pate Time Items/Reason Relinquished By	
Sient USITY OF 14 L TS Client USITY OF 14 L TS Client Contact Pugashus Los Phone Soo 821-4528 Phone Soo 821-4528 Phone Soo 821-4528 Phone Soo 821-4528 Project Nu 123/88 [1844]; [24] 123/88 [24][140] 123/84 [24] 124/8/170 Pate Time Items/Reason Relinquished By	
Sient USITY OF 14 L TS Client USITY OF 14 L TS Client Contact Pugashus Los Phone Soo 821-4528 Phone Soo 821-4528 Phone Soo 821-4528 Phone Soo 821-4528 Project Nu 123/88 [1844]; [24] 123/88 [24][140] 123/84 [24] 124/8/170 Pate Time Items/Reason Relinquished By	
Sfer Re(1/Lab Work Follent USHP OFFLATS Leadent Contact Augustus Leadent Container Preservative Propose Phone Seo-821-45.38 Date Collected Container Preservative Propose Seo-821-45.38 Has 88 Land Container Preservative Propose Contact Contact Container Preservative Propose Container Preservative Propose Container Preservative Propose Container Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact C	+
NTIFICATION TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND TEST AND	
Solids Selinquished By	
	u
	34,6,4,10
Sample No. 129064 129064 129064 Solid Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distriction of the No. Water Distric	RFW 21.21.0017A.37H6

23

RFW Contact

Client Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact				130		>							1												
Client Connected Lynning Client Connected Lynning Long Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning		1			1							\												7	!
Client Connected Lynning Client Connected Lynning Long Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning Lynning		1-02	STED	Hered						/							>	1						f	
Date Assigned to SAMPLE IDENTIFICATION Phone 300-3014528 SAMPLE IDENTIFICATION Old 18534 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Consultation Old 18544 Abot Cons		11-8	EQUES	200	,		>							>											
Sample No. Client ID No. Description Matrix Date Collected Container/Preservative Portion of Client ID No. Description Matrix Date Collected Container/Preservative Portion of Client ID No. Description Matrix Date Collected Container/Preservative Portion of Client ID No. Description Matrix Date Collected Container/Preservative Portion of Client ID No. Description : (2) Client Container/Preservative Portion of Client ID No. Descriptions: (2) Client Container Client ID No. Descriptions: (2) Client Container/Portion of Client ID No. Descriptions: (2) Client Container/Portion of Client ID No. Descriptions: (2) Client Container/Portion of Client ID No. Descriptions: (2) Client Container/Portion of Client ID No. Description of Client ID N	88/08	06	YSES R	705				>						,	\										
Sample No. Client ID No. Description Matrix Date Contact during 1928 Sample No. Client ID No. Description Matrix Date Collected Container/Preservative 1929 29060 95-333-1301 Geomodulator 1915 W. 4/23/88 1940 1940 1940 1940 1940 1940 1940 1940	7/1 8	Jumber	ANAL	Comme											/										
Sample No. Client ID No. Description Matrix Date Contact during 1928 Sample No. Client ID No. Description Matrix Date Collected Container/Preservative 1929 29060 95-333-1301 Geomodulator 1915 W. 4/23/88 1940 1940 1940 1940 1940 1940 1940 1940	ate Due	roject h		AIK.				/																	
Sample No. Client ID No. Bascription Matrix Date Contact Lux Jes & Lo Assigned to Sample No. Client ID No. Bascription Matrix Date Collected Container Preservative 29061 6529 Mol Canadula July 1915 W 1/23/88 Explicator July 29062 65-29-147001 General Luz Jes / 1/100 W 1/23/88 Explicator July 29060 65-147001 General Luz Jes / 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/100 W 1/23/88 Explicator July 1/200 W 1/23/88 Explica		<u>а</u> .		Mrs.							7														
Sample No. Client ID No. Description Passigned to Sample No. Client ID No. Description Matrix Date 2906 25-33-7400 Canada Large, 1105 W 44 2906 25-31-7400 Canada Large, 1105 W 44 2906 Canada Large, 1100 W 44 Canada Large, 1100		×			/	114,501	1.05 71	Cool	/HCI	INNO	77.4/	Jan	14504	1.501	Com	1401	7 CNH	١							079
Sample No. Client ID No. Description Passigned to Sample No. Client ID No. Description Matrix Date 2906 25-33-7400 Canada Large, 1105 W 44 2906 25-31-7400 Canada Large, 1105 W 44 2906 Canada Large, 1100 W 44 Canada Large, 1100	disusi	4452		iner/Pres	Ochr.	(dehir	le Sie 1	4 Ju.	In Vind	La Sici	1.1/10	deter 1	achie	adic 1	la Sic 1	al viel	12	`							H CKX
Sample No. Client ID No. Description Passigned to Sample No. Client ID No. Description Matrix Date 2906 25-33-7400 Canada Large, 1105 W 44 2906 25-31-7400 Canada Large, 1105 W 44 2906 Canada Large, 1100 W 44 Canada Large, 1100	act 4	18.2		Conta	Beach	150	100	190	1)40	116	(2) 40	0.1%	25 25	100	110	2)40	100				\bigvee				#
Sample No. Client ID No. Description Passigned to Sample No. Client ID No. Description Matrix Date 2906 25-33-7400 Canada Large, 1105 W 44 2906 25-31-7400 Canada Large, 1105 W 44 2906 Canada Large, 1100 W 44 Canada Large, 1100	ent Conf	one Sec		Collected	3/88/					/	3/88	3/88	,_								\bigwedge				18
Sample No. Client ID No. Description 2906 25-23 - 100 Countly for 1015 2906 25-23 - 100 Countly for 1015 2906 25-23 - 100 Countly for 1005 2906 25-23 - 100 Countly for 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2906 25-24 - 1005 2907 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007	ö	P			4/2						1//	2//r													•
Sample No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Dring Solids. Spin Solids.		ŀ	ATION	Matrix	3		_			>	3		_				>			\int	***				3
Sample No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Dring Solids. Spin Solids.			ENTIFIC		1115						2101	0011								/	7	1			is
Sample No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Client ID No. Dring Solids. Spin Solids.			LE IDI	cription							Jac.	1			_	_	\Rightarrow					17			truction
29062 05-231-M301 29062 05-231-M301 29060 05-167-A001 19060 05-167-A001 19060 05-167-A001 10060 05-167-A0		ed to	SAME	Der	mound					LOG	Genl.	20ml										7	13		Special Ins
29062 05-231-4 29062 05-167-4 39060 05-167-4 rik: DS- Drim Solide	Date	Assign		O	7	\dashv				30			-	-				-	H				H	\dashv	
24062 @5				Stient ID N	13.W.		-		_	7	1-231-A	17.77	-	_		-	>						. \		Solids min
2406 2406 2406 2406 2406 25					2	_				*	7	025	-	_				$\frac{1}{2}$				-	\dashv	\forall	OS- Dr
Madrin S. S. S. S. S. S. S. S. S. S. S. S. S.				mple No.	1001						906	2060						$\ $						\setminus	· <u>=</u>
				Sa	12						12	13													Matris S-

1																						
					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1																
1.00 1.00 STED	BUA QIK. Jains TDS Level deidity		1			\														/		
Request RFW Contact J. Okn der Date Due # 130 /8 8 (14 / 9) Project Number 2628 14 - 0) ANALYSES REQUESTED	Herd			/														_/				
5,00 8:06	\$ 705		/														/	/				
Jest Contact Tue t Numbe	Com		7																			
Requestrates Project	1 alk		1													/						
z n a l		7													/							
ab W	reservativ	rlead	Cut	LHNOZ	`										/							
Custody Transfer Rec 1/Lab Work Request Client Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contact Contac	Container/Preservative	lack	17 Bl. Se.	Plustic								V		/								
(18)		一	7	7	_								X							+		
fer B Client Client C Phone	Date Collected	88/24/	+	1								/		$\setminus \mid$								
rans 	Matrix	3	+	>					_		/			\rightarrow	\setminus				+		-	
dy T		10115								/				1	1	\						
Custody T By to SAMPLE IDENTIFICAT	- 1	1-40/6		2					A													
d By d to	Des	Many															\bigvee		-			
Received By Date	i i	٦.	1		+		$\frac{1}{\sqrt{2}}$	4	\downarrow			_	_				_	\bigvee	-	_		
	Client ID No.	08-126-4001	+	>															$\setminus $			
3		T	+	-		4	-	+	+	+		+		_		-	_	-	\rightarrow	+	-	
	Sample No.	44063																				
	" "	Y		1																	\ <u> </u>	Malrix

	3
7	ZZ ZZ

Received By

Assigned to_

Custody Transfer Recard/Lab Work Request

Project Number 0628-14-02

Phone **500 - 521 - 45**28

Client Contact 645

RFW Contact JP Of ALL Date Due 5/17/68

Date **ANALYSES REQUESTED** andstatt Received By RVA He HELOMIKITY COP 466 Relinquished By Date Collected | Container/Preservative #1 H-504 124/4K1 950 per 6/ 14504 14504 12 40m (YOA=14CI 12/10ml YOX 5/4CI golomby 1 coll 150 end-146506 HNOS HUDE plat 142504 Items/Reason 14 plat 1 w/ tut 950 and D Wal 500 Sult = 000 4550 Time 003 5/10/86 Sluks Date Matrix SAMPLE IDENTIFICATION Received By S.W= Lusper wats Special Instructions: 1540 Description 1540 1540 \$41 01-503-Wf02 5.W, S.W Relinquished By 01-503-10002 01-505-WOZ DS- Drum Solids DL- Drum Liquids X- Other Cilent ID No. Items/Reason Sample No. Soil Water Oil Matrix:

	1 rost												>	>	1				#	2
RFW Contact TD Older Date Due 5/12/88	ALTOES	HS SWA TAC		\ \ \	\ \ 							>						Received By	MONNE	Ä
/ork Reque: RFW Cont Date Due Project Nu	H 1-19 ANKTOS C	* 3 a. Coak live	\ \ \						X	>								Relinquished By		
ler Recaded A	Container/Preservative	12) foul yets (4C1	11014/1066	Charles In	2502ml-14254	14 flat 141103	500 plat /4.501	95g soul / 14250L	(2) 40 1/10/8/HC/	11.0tx/14.6.11	12 Sent 1 coll	2500mb/14506	12 plat/ 41033	4	750cmt 111224		7291	llems/Reason		
Insfer Record Client Contact Lus Phone \$10 - 821	ix Date Collected	5/10/88						777	2/10/88						X	11188	194 000 #1	Date Time	2/1/188 1500	
Custody T	Description Matrix	J615 W						1955	122-1						A	6516 5	Special Instructions:	Received By	Sells	
Received Date Assigned	Client ID No.	DI-504-1602 5.W.					-	01-505-1000 511)	一								DS- Drum Solids Special DL- Drum Liquids X- Other	Relinquished By	Dry Still	10
W. C.	Sample No.	01/001						130/87									Matrix: S- Soil DS- W- Water DL- O- Oil X-	Items/Reason		

RFW 21-21-001/A-3/86

Custody Transfer Re Ad/Lab Work Request Phone \$40-821- 45 78 Client Contact Las 12/2 Matrix SAMPLE IDENTIFICATION 1830 Description 0081 5.10. Assigned to __ **Received By** 5.60 06-510-11002 DY-51-10002 Client ID No. Sample No.

ANALYSES REQUESTED

Project Number 6628-4-02

Date Due - 6/17/88

RFW Contact_

TDS front Conne Date Collected | Container/Preservative 1450L 950 en Luth 506 to 40m Vat titet (Yexts/ 2 You VOAS/AC 950 ander, 12 plest 1(W) III 5/10/88 5/10/86 5/10/88 5/10/5 \$110/88 Shalse 3 1230 1750 SW/15/24 1730 77715 S. 5.00. 5.44 Charles or Training 24-572-VIOL 200 - 512 was 20011-275-4002 d-511-W402 04-512-41202V 30196 4610E1 b b -130198

Special Instructions: DS- Drum Solids DL- Drum Liquids X- Other Soil Water Oil

Self 0005 982

S.w. :

Time Date Received By Relinquished By Items/Reason Time 5/11/8/ 1500 Date Received By Relinquished By Items/Reason

K-80

,	~	1 3	_	ı	1300					X								X	米餐						
/	i	Date Die May 12 1988 / Hald in	9 6)TED	700				X								Х	Xg	ğ						
	appro	336	7/-8	ANALYSES REQUESTED	O± Sz			×								X	米書	ğ							
	ر ان د	4	067	YSES F	Comman		X								X	Xoo	8								
, 	Request D Clauder	May 1	Project Number 06 28 -14 -0 2	ANAL	After Comm COD TDS anims NHz		×								X	Ò							,		
			roject N	200		×								X										426	
<u> </u>	dy Transfer Rec. d/Lab Work Request		ם כ	1	Pet Durg Haloculy Aroin	×								X											
	. Wo	10			_	/KCI	00:	42504	700	1,05,4	-OM+	14.504	Š	(K)	00	7054	TY ST	, 35	V03	\u034)	1000		90	10	
	/Lab	Sulsa	452		Container/Preservative	@ 40m/ viole/HCI	Hiter poly/cool	liter poly/ 14.50x	250mlamber/11504	500 ml oily / 14.504	lither poly/HWO?	950 mlamba / 12504	Isgal amber 1000	2) 40 m vials / HC)	literpoly 1000	liter poly 1 H-504	250 m Comber / H204	500me poly / 11,50%	(liter poly/HWB3	950 ml amber / 1250y	1/2 galamber / cool			4-	
ł	Hoofe	act Au	-123-		Contair	2 40r	मा	म्या	250m	Soon	ज्या।	950 ml	Trad	(z) 40 m	भ्या	1114	250m	500ml	Lilap	J-056	1/2 gal	,		1	
	Receipt the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco	Client Contact Augustus Lo	Phone 800 -821 - 4528		Date Collected	88								88-							_				
.	nsfer ଆଧ	Clie	Pho			88-01-9								88-01-5							→			6	
) 	Trai			UTIFICATION	Matrix	3	$\frac{1}{4}$		_				>	3				1		_	>				
) .	ody					7 172S	.							1/163V W											/
1	Custo			SAMPLE IDE	Description	urtuce World 1725	4	+	_	_	_	_	4	Fuce Water							\				
) 1			d to	SAME	Des	Zurtuc L								71											
<u> </u>	Received By	Date	Assigned to	}	-	7007	_	-	1	-	-	_	\dashv	3 200	_	1	-	4	-				$\frac{1}{4}$	1	
Ì			•	İ	Client ID No.	05-514-W002	+	_	1	_	_	\dashv	>	05-515-WOOZ SW	+	_	+	+	4	_	>			V	
֓֞֞֝֓֞֝֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֓֡֓֡֓֡֓֡	3				,	- 1	\perp	-	_	_	_	1		- 1				\downarrow	-	_					
רת [12 - ST				Sample No.	2710								30200											
	31				Sa	53								137								1			
ŀ										•						K-8	31								

X

Matrix: S- Soil DS. W- Water D1-	DS. Drum Solids OI - Drum Liquide	Special Instructions:	40004619	19770	6				7
	Other	707))	- - -	~				
Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date Time	
	(Son D. Olan a.	Federal Granage	2/4/96/1500	1600			Mora Leath	F.II-SUCIES	R
			•					<u> </u>	3
									T
									Τ
									T
RFW 21-21-001/A-3/86	/86								1

7 7					
· 1 · 1 · 7 · 7	252		XV		Time
"ye 1 of 2 "THOMING TIME	Conions				Date
1-027 1-027	Alka				
1988 (1988 (1988 (1988 (1988 (NO3	X	\times	20/	Received By
act TOO lander May 17, 1986 (Imber OG 28-14-0) ANALYSES REQUESTED	NO ₂	X	X		Recei
est Intact e Mumber ANA	70C	X	×		
Request RFW Contact TOO Lander Date Due May 17, 1988 (H Project Number O628-14-02 ANALYSES REQUESTED	Kt Josephilan				Relinquished By
⊼ .					Relinqui
Custody Transfer Record/Lab Work Request Client USHFGEHL/75 Client Contact Puscus L2 Phone 800 -821-4528 Project Num	ls/HC[S 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -		<u> </u>
/Lab	2) 40 m Viols HCl	SZOM Camburg SZOM Poly (C Hiter poly (C A 40m (Viols) (350mlamber 670mlpoly/ 1:ter poly/		926 Items/Reason
Cord Hact Hact	- 4 c	SEXUME GILLONGO	SEOM am 570 m Lpo 16ter poly		8
r Rec	5-10-88	38-01-			000 Time 1500
nsfe Clie Pho	1 7			1	# Date 65/11/88
Custody Tran	Matrix 3				al
lody	1 / 1734 BY 1415		- /		
Cust	Sarface with		++> /		Rece Rece
1 1 3 1 6	Surfa Surfa			M	Secial It
Received By DateAssigned toSAR	10. 10.402 10.202	7803			The d
S	Olient ID No. Description 24-512-14102 Surface with	2007-915-50	++> /		um Solids um Liquid ner Relinq
73.			+++/		DS- Drum Solids DL- Drum Liquids X- Other on Relinquis
	30/82 30/82	3020			oil aater 1/Reas
SI ["					Matrix:

Ster Rec. d/Lab Work Request Pog 5 pp. Client Listing Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cetted 7 pp. Cet
b Work Request Few Contact, JDO lander Berolect Number Acts 8-14-03 ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES REQUESTED ANALYSES ANALYSES ANALYSES REQUESTED ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES ANALYSES
b Work Request 15
b Work Request For Few Contact TDO land By 19, 1988 By 28 Project Number 2628-14 ANALYSES REQUES For Fig. 18
b Work Request REW Contact JDO Be Due May 19- Be Servative Hole ANALYSES RI Be Servative Hole ANALYSES RI Be Servative Hole ANALYSES RI Be Servative Hole ANALYSES RI Be Servative Hole ANALYSES RI Be Servative Hole ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANALYSES RI ANAL
B Work Request RFW Contact Be Date Due May Servative Retain Toc Analy Be History Coo Coo Coo Coo Coo Coo Coo Coo Coo Co
B Work Reques RFW Continue 28 Project Nu Date Due Project Nu Coul Coul Coul Coul Coul Coul Coul Cou
B Work Rec WG 28 BFV Bervalive Coo C
Nork Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve Solve S
Fer Record Lagrachy Client Contact Luguachy Client Contact Luguachy Phone 800-821-45 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml celly Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cells Liter paly Co 250ml cell
Seal # WOULD Stand Soon of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Alles 1900 of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stands of Stand
Ster Re. Client (List Phone 1/8 Client Cont 1/8 Phone 2/8 S-10-88 S-10-88 Imperimental 1/9 Client Cont 1/9 Client Cont 1/9 S-10-88 Imperimental 1/9 Imper
Custody Tran SAMPLE IDENTIFICATION Description Matrix Lize Lucker (1835 LL) Africe Lucker (1835 LL) Sec. (1840 LL) Fedeuch Express 6
Special Instructions: Special Instructions: Special Special Capaza Special Manuel Capaza Special Material Capaza Special Manuel Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza Special Material Capaza
Special Ir
Peceiv Date Assign Assign St. St. St. St. St. St. St. St. St. St.
Sample No. (30202) (30202) (30202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100202) (100
Sample No. C. Malrix: S. Soil DS. Drur W. Water DL. Drur O. Oil X. Other Items/Reason

NA STAN		Custody 7	ansfer Re.	Fransfer Recad/Lab Work Request	ork Reque		Page	()	4
	Heceived By Date		Client Con	HEGEHL-T	RFW Contact	2 2	JDOlander	74.17.	<i>\begin{align*} \begin{align*} \begi</i>
	Assigned to SA	toSAMPLE IDENTIFICATION	Phone 800-	1	15	Project Number 2628-14-03	-41-87	3	; 2
Sample No.	Cilent ID No.	Description Matrix	rix Date Collected	Container/Preservative	2	ANALYSES REQUESTED	REQUESTE		
130002	05-516-W502 Surface with	wtace wha/1835 W	88-01-50	1 liter ook/H-Sa.	* ×	Scient 1 Hg	17 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1	Fr BUA	
				Hiter poly HHVO3	13	×	X		-
	>		>		4		X		
130305	05-516-W602	Surface water/1835 W	15-10-88	11: For poly 1450,	X			X_	
			+			X	X	-	<u> </u>
	>		1	950 ml amballe	(m.S)/		^	7	29
		>	>	Izack amber 1000	, 0			X	
								•	/
	/								Ž
							1		
					88/-	1	$\left \cdot \right $		9
				7	1		+	_	4
		7 ()							7
		DI							9
									$\frac{1}{2}$
		-			1	1			\pm
							//		-
Matriv								I	+
S. Soil DS-W- Water DL-O-Oil X-	Drum Solids Drum Liquids Other	Special Instructions: S_{QQ}	\$194000-#	819					
llems/Reason	Relinquished By	Received By	Date Time	Items/Reason	Relinguished By				
	In Olander	. Federal Exmes	5/11/60	1	(a policiphina)	несен	Received By	Date	Time
			λα <i>)</i>			X VIII	CORTO		1-00 11-00
AFW 21-21-001/A-3/86	AR								

· S	
(121 121 121

Date Due 5-17-85 (Holding Trunk) Project Number 0825-14-02 BNA TOC MENISCHUNG/13 **ANALYSES REQUESTED** RFW Contact DOlander Pethalo Alk TOS COD Purificación muio NHS Custody Transfer Revid/Lab Work Request og X 707 Matrix | Date Collected | Container/Preservative) (3 (4) (14403 250mlamber/1450 Bomlamber/H154 250 ml amber/ H504 500ml poly/120g 950 mlamber/11550 500ml poly/150y (2) 40 m vials / HC) Ggalamber/col Lagal amber 1000 11the poly 114,50% Lliber poly (HNU3 2140mlvials/HC 1 liter pop//cool Client Contact Augustus | Phone 300-821-4528 liter paly/co Hiter poly/ liber poly 8-01-5 5-10-88 5-10-88 SAMPLE IDENTIFICATION 3 3 \mathcal{G} 25-517-wodz Surface water /1805 30205 ps-518-42002 Surface wher/2145 05-517-was Surface woto/1805 Description Received By Assigned to. 30205 Jos-518-4002 Client ID No. 3000 Y 30204 Sample No.

Special instructions:

Matrix:

S- Soil DS W- Water DL O- Oil X-	DS- Drum Solids DL- Drum Liquids X- Other	Special instructions: Scal	#0	400	#0004612			
Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinguished By	o Penjace o	-
	(An D. Oun De.	Der Februl Grores	5/11/28/1500	1500			Mondy Just	CATOMA II.
							CHANGO WILLIAM	7
							1	

Ward	Seceived By	Custody Transfer Recadding Work Request	nsfer Re	d/Lab Wc	ork Reques		Da O	15th
	Date Assigned to	_	Client Conta Phone 800	Client Contact Hocustus 10 Phone 800-821-4538	BFW Conte	Project Number 06 28 14-03	188 CHAH	ling In
	-	ENTIFICA	z		1	ANALYSES REQUESTED	ESTED	
Sample No.	ı	Description Matrix	ix Date Collected	Container/Preservative	Retor Phylad	TOC NO. 100	NO. NO2 A16,1 Comin	2012
120000	20000-913-90 01000C	Surface woter/2115 1	5-10-88	2)40mlvials/HC/	X		17 T	↓
				250 mlamber/1450x		×		
				500 mlpoly/15504		X		
	> 1	\dashv		Hiterpoly/ cool		•	× ×	X
100001	790m-025-97	ir Licewoter 1845 (5-10-88	3) 40m lviels/HCI	X			
				250ml amber/11250	7	V		
				500ml poly/4500		X		
		→	>	liter poly /coc			X	×
				, , ,	ļ	·		1
/							1	$ \sqrt{} $
	/							
			Ç			201		
			10/7			XX		
				K))		
				/				
					/			
					/			
						/		
							/	
Matrix: S- Soil DS- W- Water DL- O- Oil X-	DS- Drum Solids DL- Drum Liquids X- Other	Special Instructions:	7# 000 4617	5/7				
items/Reason	Relinquished By	Received By	Date Time	Items/Reason	Relinquished By	Received By	9,60	Lime
	Jan Clan a	La Federal Fiores	6/11/FS 1500			Month Par	\mathbb{A}	(L)(1)
						The Park	2	701-11
AFW 21-21-001/A-3/86	86							

Jaof	7,m'z)			18-14	-5-0		丁	92
(0)	, in	BMA					+-	Time (1/1/1)
\ <u>`</u>	Holding 02	9.0			\mathbb{N}			Date
·	1988 CH	ESTED RHO HAGO	X					
	1981	REQUES H-&	X	시	N			M Ka
	12 to	ANALYSES REQUESTED	X = X	X			/ -	Receiv
ŧ	lace I with the second	ANAL Scrow	X	X		 	+-	
9	Client USAFOEHC - TS RFW Contact Puckets & Date Due May Phone 20 - 821 - 45 28 Project Number	X	T X			+++/	+	l By
a d	RF Da(9×			++++		11	Relinquished By
/ork	2013/20		M 2 0 2 3	MONTO 1		11/11		Relin
₹ \$	12.2 15.25	Container/Preservative	~ N 2 - 1 -	11 der poly/ HVV3 15 Dine amber/145 12 gal amber / coul	188			<u> </u>
	EFF.	Container/Pro	Con y	15 Ind ambo	111	V = V = V	4	Items/Reason
₽ }	9-0-8	Conta	257mlan 12gelam 11iter pol	200			197	le i
Re.	Client USAFOEH(-T	llected ~ 86	188		1111	 	£197000	71me 1500
sfer	Clien Clien Phon	Date Collected 5-10-88	01			/\	1 1 7	2 20
rans			3-		 		Seel #	
ly T	to to SAMPI FIDENTIFICATION		33-		+++/		Reg	Federal Expres
stoc	DENT	on Color	notes			M	` /	ral Cxp
	=	Description Surfacetuoler 2115	Surface woter	 			truction	eden e
	ed By	1 1 1	"				Special Instructions:	30
	Received By Date	Client ID No.	76-520-W002				ďs	
	T U 4	Client ID No.	- <u>8</u>				olids quids	DOCar
53		Clie Clie	085:				Drum Other	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Sample No. 130206	0207	17		1111	ا دی	
W. S. Les)	Sample No. 130201	302				atrix: Soil D Water D Oil X	
رح				1/			Matrix: So So So Oil	A S

	RFW Contact JD Olander	me	1		<u> </u>	2	ī	ī	Τ.	1		1	1	·	T	·	T	}	Г							1				
·		ドド	· >		Pet			_	X	_			X	1_		/	X	1			X			X				au l	[P.]]	<u>.</u>
·- 1)	٠/٩.	٠.		EV 97			X				X				X	+										1		ALIGH	
		Ż	20-1	STED	Meta			X				X				X									\prod		r	Ţ		<u>-</u>
	land	8861	4-8	EQUE	Sat		X				X				Ż					X			X				Received By		400	
	40	17	06	ANALYSES REQUESTED	Comman	,	X				X				X					X			X		\prod		Becei		HEALL) LINGTO	
150	Itact J	Ma	lumber (ANAL	7 Kal		×				X				X					X			X	1	$\ $			+	7	
fer Re /a/Lab Work Request	FW Cor	ate Due	Project Number 0628-14-02	Ì	Aronal Hulolan/Alkal anions	X				×				X				X							\parallel		hed Bv			
k Re	. æ	ä	ď	j	100 P	×				X				X				X	X			X	1		\parallel		Relinguished By			
Wor	5	10	∞	-			1000	11103	705.41	¥	Cool	Auto,	541	ξ	8	141003	H550	HC	포	Cool	303.4	X X	1000	37	\parallel		L		\downarrow	
Lab	44/1	stus	-425		r/Preser	linds	Liter poly/cool	#//4×		(lels)) /१	Thed	amber	vials	Doly 1	11/4) Jed wa	viols/	vials/	2/You	mber/	vials/	<u>ير</u> الم	-pec/H	-	6	Items/Reason			
,'a',	FOEL	Huge	122		Container/Preservative	2140m Wiets/1401	11:14:	Hiter poh/	950 m amber	2)40 mly 1cls	liter poly !	liter poly / AND.	950 ml amber	e)40 ml vials/HC	liter poly/coo	Hiter out	950 ml amper/H,500	2)40 m vids/HC	@40mlviols/HCI	I'har poly	950ml amber (1450)	es40 me vials/ HCl	liker poly	950 mlamber/Hz Say		154	Items/			
Re	ush	Client Contact Hygustus L	800	⊢	-+	88	T		T				6				6			1	$\neg \tau$	- 1	7	8		6454000	Time	1	200	
Custody Transfer Re	Client	Client	Phone		Date Collected	2-10-9	+	1	>	28-01-	+	_	K	38-01-		\dashv	$ \downarrow $	25-10-58	28-01-9		}	28-01-5				0	Date		0051 88/4	
rans			I	L	Matrix	3	+	1	>	3 3	+	7	7	3		\dashv	7	3	3	 	7	3 2		-	\parallel	Seal #	F	14	<i>[</i>	
dy 1			TIFICA			5507				2025	1			2055				5500	1610			1540		+	\parallel	Sea	ed By		Ardenal Capiers	
usto			E IDEN		Description	Angra-				_				_	-			marec/	Milk			_			Ш	• •	Received By	3	3)ma	
			SAMPLE IDENTIFICATION		Descr	Surfree Water/2035				אמנה נה			7	ruce usaker			-	راسدا	ANTERE .		 	Ace b				Special Instructions:	L)	\$	
	Received By	<u>е</u>	Assigned to SA		ı	- 1			(22 Zwc			5	Ķ			,	02 6 u	\$ 200		,	22 Zer				Speci	d By	0	No.	
	å å	Date	AS	Client 10 Mo	. D. N.O.	03-507-W002			, ل)ON-30		,		00m-1			7	7-W3	21-W			2-no		00/"/		spinds quids	Relinquished By	2	D. (Vla	
7 2	E-14-03			Clipa		2-50				Da-508-2002 Surtuce water			7	Da-509-wwa				03-507-1302 burtuce water	07-521-W002 Surface with		1	07-522-W002 Jarfuce water		1		DS- Drum Solids DL- Drum Liquids X- Other		()	3	
7	- IDOMAGO			S S	00	9			190				- 1 -	7			\$	200	77		1	1007		d	3		eason			
3				Sample No	101	120			121	2			121	750			100	000	120lo		1201	<u> </u>		+	Matrix	Soil Yater	Items/Reason			
				<u></u>		_1_	Щ.							_!_										11	Σ	တ် ∻လ		L		

RFW 21-21-001/A-3/86

	5 21
Ĺ.,	
(121 121 121

RFW Contact JD OKAder Custody Transfer Re de de Work Request
Client USAFUEHL/75
Client Contact 6.5 40
Date Due 5 Received By _

Phone \$00-621-4578

Assigned to_

Date

Date Due 5/12/56

	Ass	Assigned to		Phone 80	Phone 800-821-4-78	-	Project Number 1628-16-02	lumber	428	-14-6	77		•
		SAMPLE IDENTIFICAT	CATION					ANAL	ANALYSES REQUESTED	EQUES	TED		
Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative	700	metal	¥	74.	140	ì	May lite	7
130178	20-105-10	SW /1510	3	2/10/88	250 mlant / HESOL						1		
	_				14 114/ HNO3		>			/	/	,	
	4				Swal 149/ 14504							7	
	>	B			950 Jan 1451-					!			/
130179	01502-WOOL	S.W/1700			250mlent 1450								
					HALF /HNOS		>	/	>		7		
·					500 HHH 4501	-						\	
0	À	A			Frail amb line sot								\int i
130×10	07-523-4002	SW / 1445	>	>	seamlent / Hiss								\setminus
				1								-	
				7/5	.\							-	
					\$ \$ \$								
								/	/				•
										/			
												/	/
Matrix: S- Soil DS- W- Water DL-	DS- Drum Solids DL- Drum Liquids	Special Instructions:	1	Seal# 00053/5	53/5								
5		1. 5 super wales											

Time

Date

Received By

Relinquished By

Items/Reason

Time

Date

Received By

Relinquished By

Items/Reason

Wie	-	Ì	Custody Tra	Trar	ısfer	Re J	nsfer Re/d/Lab Work Request	ork Regu	lest	?			>1	. .
)		Received By Date			Clier		Client USAF OEHL (75	RFW C	, لب	TD 010	9	`		
-	Ass	ned			Phor	16 200	Phone 200-821-4528	Date Due 2	ue 2//2	Date Due 5/12/86	1-14-00		•	•
		SA	SAMPLE IDENTIFICATION	CATION					ANA	LYSES RE		, 0		
Sample No.	Client ID No.		Description	Matrix		Date Collected	Container/Preservative	Post Pura.	S	The state of	7 7 4			_
130178	100 m-105-10	3	1 1510	3	5/10/	12/48	12 YOA /HCI	1		Marian	00 50	# 2	₽W4	11
				1			1			>	>			T -
				+			12 pluts / 11-504)	7		_
120170	>		<u> </u>	+			had luled	Ì					\ <u>\</u>	
1100	100m-10510	7	1 1700	+			2) 40 L VOA / HC1	/			\dashv			
				+			1000		<u>\</u>	1	1	-		
	1		3	+		1	1/ plut 14504				7	K		-
120216		V	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+			yel leal	12/2					7	
200	01-523-W001	ZW1	344	*	1	7	120 m/10/45/ 1/6/	X V		-				
1	*		*	7	*		12 plot 1 colox		>	>	/			
						1			,					ŗ
														_
			/	\int	9	Š								, -
						#	3/11/KK	\						,
							2/ /		·			_		Ţ
														,
											7			
											/			,
						+							/	
A													/	
S- Soil DS- W- Water DL- O- Oil X-	DS- Drum Solids DL- Drum Liquids X- Other	Special $\mathcal{S}(\mathcal{U})$	Special Instructions: (1) = Author With		X / X	<i>#</i>	54×5000							4 .
Items/Reason	Relinquished By	d By	Received By		Date	Time	Items/Reason	Relinquished By	F	Received By	ed By	Date	Time	
	12/10	1	500						1	/	17. //		8	
	- Shooper	7	144		N N	DE CO			4	MAN	Quar ?	20/01/2	11:00	
									-					
FW 21-21-001/A-3/86	RE					1			$\frac{1}{1}$					_

フララスついて		7		i	_ _							
	Received By .			Client _	USAF	Client USAFOEH /TS		RFW Contact	JD Olano	1		
۰۵	Date			Client C	Client Contact_	7	_ Date	Date Due	2/88	-		
Ϋ́	Assigned to	SAMPLE IDENTIFICATION	ATION	Phone	Phone 200-521	21-4578	- Proje	Project Number	er 0678-11-0	20-		
Client ID No.		Description .	Matrix	Date Collected	-	Container/Preservative	Rt Pins	1	Cap P. 1.1) IED	13653	100
100m-402-10	5 SW.	1615	3	2/10/88	+	Mb_1008/4/1	Hala Aronn	A see a se	WAS SWA	705	X	- X
`						$\mathcal{L}_{\mathcal{A}}$						
					///	ply (14.50L			>			
					7/7	Je				,		
					75	15 web 1 42504						
					77	Wold HAVOZ						,
					200	0 plt 1 43.84						
>		>	>	\geqslant	459	17						*
205-405-10	SW. /	1615	3	5/10/88		عالا	\ \					
					117	14/110		>				
					140	dt/4501		_	>			
					1/2	Mark 1 cell			>			
					750	Foul 1 12.50						
					17	Jet HNOS					/	
			1		005	3						
>		>	>	>	1	Epole / 45 24						
2001 1000	2 W /	1515	3	5/10/88	12 X	40. (VOA / HE /	}					
4	•			$\frac{1}{1}$	7/	ply loll		K				
		*	>		950	100 land 1450k	X9X	¥				
				1	9	11688						
- Drum Solids	Special li	Special Instructions:		Sul	#	1294000						
DL- Drum Liquids X- Other	S.W.=	= feather lo	into	ı								
Relinquished By	thed By	Received By		Date T	Time	Items/Reason	Relinquished By	By	Received By		Date	Time
Rouns	high	FILE		5/11/2	0457				MIND PAST	2	1 Shells	11.00
1		•	-									
	-											

	Custoty Tang	Client 1154 E / 0 E 44	
Date		Client Contact Gus Lo	Date Due 6-12-88
ned	to Other Paris Carlon	Phone	YSES REQU
Sample No. Client ID No. Desc		Date Collected Container/Preservative	COD HOS TOS Hydra
Descri-MoxIl Lound	With loass W	8/5/88 11-poly para	
80 05-107-MORI	10%57		
136802 05-107-MILLE			
125-107-M621	>		
120M-781-20	4080		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
136806 05-107-11221	/ 0827	X	
130807 02-164-Maai	1 asko)	500ml H1X4-	
1368 OB-16-1001	1,0530		
13/08/09 pg-166-MOD)	10945	7/10	
13/08 10 02.525-WOOL Survey Well	6/1855	500m/ 112×4	
=	,	11 puly 110 50L	
		1/2 cm Tra / H = 504	
136812 nz-523-W122			
1368 12487-513-WARD			
13681400-522W522			\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow
136815 m-22-W22(WED)			
Surported	1845		
136817 02-524-WONS			
1,300111 V	Special Instructions:	-	
iil DS- Drum Solids ater DL- Drum Liquids			
Cine	Received By	Date Time Items/Reason	2770
Hems/Reason Reinquisited by	F.054	0061 1/8	Splie Machary of Sign 10 W
live (2) All of the live of the			
		 - - - -	
RFW 21-21-001/A-3/86			

136818-834

ANALYSES REQUESTED Project Number 6628 - 14-62 RFW Contact J OUNDER d/Lab Work Request 1803 1803 do 4 504 Matrix Date Collected Container/Preservative 42501 14504 14506 4.504 4.504 11.501 4.504 112504 4.504 11.50d MON 42506 Client Contact 645 60 42501 OFHI 5000 5000 5000 500 202 500 Client USAE Phone 800 Custody Transfer Re 188 SAMPLE IDENTIFICATION 3 3 120 Description, 04,51 1710 1800 Received By 560 Assigned to. Sw/ 06-507-W504(WS) 02-509-10102 02-509-W01 6826 04-510-WOOZ 2001-11240 04-572-WDZ 05-514-WOLZ 55-516-W112 04-509-14002 24-513-40002 01504-11202 102-605-70 204-912-50 05-516-11017 25-516-41123 01-505-14023 02-507-WO Client ID No. Sample No.

05-516-512

05-516-11232

5-516-W12

H.506

42504 mon

DS- Drum Solids DL- Drum Liquids X- Other

Special Instructions:

Soil Water Oil

Items/Reason	Relinquished By	Received By	Date	Time	Date Time Hems/Reason	Relinquished By	Received By	Date Time	Time
1 maple	Pring Kill	EDE	8/4/8	061 844			(0):01 85/43 rag 2019 ripe	<i>8\$/\$</i> / ₃	10:00
1	00								
			-					() -	

M		Custody Transfer Re	Frans	fer Re		d/Lab Work Request	uest	AC8-1120061	8-11	26
	Date			Client Contact		RFW	RFW Contact	Ole les	`.	
	Assigned to	ed to		Phone \$00-	100-524	Date Proje	Ŋ,	1		-
Comments of		SAMPLE IDENTIFICATION	TION				2	ANAI VSEC DEDITECTED		
38mpie No.	-+>	Description / Line	Matrix	Date Collected	d Container/Preservative	Ilve Con Maga	1 6	s nedues i ED	-	Γ
120021		Jecht.	B	8/2/88	16/00		3/	teo		T
126897	85-516-WAZAM	(mg/			14/ H=504	\	-			Τ
12/8/17	₹)	Jan J	+		16/ from					T
7	7 - 16-wox	0081 / MC	-		Medes/ H	Hasal	^			T
	7 000	808	+							Λ
	9.00	700								T
			+							
					-	8/11	8			Ī
			1		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	4/4//				
			+		124					Τ
			-		X					Τ
			+							T
			$\frac{1}{\sqrt{1}}$			/				Τ
			+			/				Τ
										Τ
			+					/		T
								/		T-
			-							T
	Solida Solida	Special Instructions:	-							7
Water DL-	Drum Liquids Other									
Items/Reason	Relinquished By	Received By	Date	ile Time	Items/Reason	Relinguished B.			-	Г
remples	Dryon Shice	M Fed Ex	16	148 19:00			, Pud	622	SKY 10 (1)	
2	11						June	אומינטוני	10 m	
			_							·
										T 1
FW 21-21-001/A-3/86	98		$\frac{1}{2}$	-						
										7

23!
1
531

for Petroleum Myrocarbons odi Starm 85/8 100 136837-1846 **ANALYSES REQUESTED** ance KAM 8/5/88 Project Number 8628 - 14-02 RFW Contact 5 Olender MOS/DS TTPS Custody Transfer Re rd/Lab Work Request Relinquished By 1 Lamber receipt, 9 4.50 Matrix | Date Collected | Container/Preservative 4506 4.50L 42.504 was broken upon items/Reason Special Instructions: Sample 06-519-W022 "Client Contact 645 Phone **900** 1300 Time 8/2/88 84/18 Date SAMPLE IDENTIFICATION 3 3 3 Received By Description for 23.5 1935 1955 1900 1830 **Received By** Assigned to S.E Relinquished By 25-517-WOR 26-519-Was 25.40-11022 07-522-W002 5.58-4022 27521-W001 7-521-4022 02-522-WOZ Client ID No. DS- Drum Solids
DL- Drum Liquids
X- Other Items/Reason Sample No. Soil Water Oil Matrix:

23	
₹ 5'	

Received By _

Assigned to_

Date_

Ster Re d/Lab Work Request Custody Transfer Re

Client Contact. Phone_

RFW Contact J Olender Project Number 0628 8-12-88 Date Due

Sample No. Client ID No. Description for Matrix Date Collected Container/Preservative 13699 67-103-Model 1345 14 8-5-88 500ml 14-504 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 13699 136	ANALYSES REQUESTED					\				7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\frac{\sqrt{1}}{2}	**								Sw 1C3m	(2) 625
	ATION	latrix Date Collected	1 8-5-88 500ml	9	12 poly 1 Mars	0		>	8-4-88 1/20h/Now	6	1					^	50ml HASOL	V 1/2 dala / 1/200	2 50 Jan 9	I wash form	.9 /	
		din.	Down Outh				03-M101	03-M301					28.M121	18-M231	128-M51	28-463/		42-MOXI	0441/	^		

DL- Drum Liquids X- Other W. Water O. Oil

Time Date Received By Relinquished By Items/Reason Time Date Received By Relinquished By Items/Reason



Custody Transfer Record/Lab Work Regulast

Contain with the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the contain the c	Client USAF (DEH) RFW Contact J. Olanda		Phone Project Number 0628- 14-02		11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CLO 11. CL
	Received By Clie	DateClie	Assigned to Pho	SAMPLE IDENTIFICATION	

Sample No	Citant to Mo					ANALYSE	ANALYSES REQUESTED	STED		
	Ciletin 10 No.	Description	Malrix Date Collected	Container/Preservative	LIX MISTER NOT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
137009	05-130-401	France Water 170	111 8-4-98	110.01	The Company	A ROW				
137010	DS-132-MOZI			The fame			1			
137011	DS-153-1021	//	>	>			1			
137013	05-255-MOZU	1/	8-5-00	11 2.00/11 50	>					
137013	05-105mm1	/		6 112.1	\ \ \					
137014	121N-201-30				X			<u> </u>		
1.37015	OK-105-M11	***************************************	 - 	,	<u> </u>			1	+	
12701/	2001 711 17		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	→	<u> </u>			5		
ı		1 1438	8-4/88	5000 / H1514		<u> </u>			:	
137017	07-257-1021	↑ . /	•	1/ / 1/	\					
137018	07-148-MAN			7	187/				4	
Kh427119				500 mg/ 112504	1	>			5	
	25,5400	1,7500		16 miles 1 1/2 Sec	1	>	: : :	<u> </u>	H	!
0.0121020	07-239-MOGI	1 1500		14.50	24/2	\			45	
137031	07-104-HODI	1 0920							+	
1.37033	1.37023 pr-104-now	0260 /				\ \			+	
137023	07-156-1001	5101/		20 Tr / 0	<u> </u>				$\frac{1}{2}$	
1	1204-921-60	/ 10/5		P		>		-		
137025	137025 07-147-MODI	1100		Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan	\ \				1	
127026	37026 121/10 431			See / Bass	·	>	1		1	
XUZ	77.74	W / 1800		16 pely / Nove	>					
			//S/	al = 1001						1
				477			 	\prod		7
		Charles Instructions:	1 -7 /				1		1	7
=	DS- Drum Solids	Special instructions:	C #F 000 4970	0			•			

DS- Drum Solids DL- Drum Liquids X- Other S- Soil
W- Water
O- Oil

K-98

Date Time		20.00	·		
Received By	Jathu Sides	- American	7		
Relinquished By					
Time Items/Reason					
Time	1800				
Date	1/2	,			
Received By	1508				
Relinquished By	Bryon Shil				
Items/Reason	1 cooler May	`			

Cusiody iransier Recoru, Lab Work Request		Date Date Date Due \$ /15/88		MPLE IDENTIFICATION ANALYS	Description A Matrix Date Collected Container/Preservative	Bound 11 26 11 28-7-88 12 22 12 22 14.500		G-M23/	78E-MSX	S-M6A1	1015-MORI			\		1/	LS-MON.		/		10-4031 / 1320 /	1/	38-2021 (1340		$\langle 1 \rangle = 1 $	Solids Special Instructions: Sec # 000 4754
	Received By .	Date	Assigned to	SAMP	Client ID No. Des	11. 125- MORY DAWN	01-125-4121	01-185-11221	01-125-MS2	128- M621	01-122-4021	101-727-NOM	1204-071-10	1-26- MOX	NOW-521-10	1-162-MOZI	01-245-MOZI	/ 120W-421-10	11-156-NOM	06-7\$7-MOZI	6-110-MOXI	12.28-2021	1204-801-90	1200 06.108-4121	1 V VXXA-801-90	
VAL STATES					Sample No.		3		137185 6	137186 6	137187 6	137188	4	137190 01-26-MON	137191	137192 pi-162-MOZI	1371936	1371946		137196	137197 6	137198 6	137199 0	137200 %	(00)	Matrix: S. Soil DS. C

Other •• o

Items/Reason	Relinquished By,	Received By	Date	Time	Date Time Items/Reason	Relinquished By	Received By	Date	Time
1 well	Bush Kill	Fel Ex	8/8	8/8 20m			Other Furce from 59/8 10:30	29/4/3	05:00
	//)	,						
,									



Received By _

Assigned to

RFW Contact T Okenels Custody Transfer Record/Lab Work Request

Client Contact 642

"Phone_

Project Number 2628-14-03

Date Due 2-15/88

	-		-							-				-	-	_	-		-		4
TED	H			_		-															
ANALYSES REQUESTED	1 X PAT	Ly qua																\		 	
LYSES	74	3														>					
ANA	4/42				\								>	>	1		1				
	MAYES		>		_							<u> </u>									
)))	,,													7	1,1			
	reservative	14522		145/4											0/450	1000	75.77	14.50%			
	Container/Preservative Container/Preservative	1/40lu	6	Swarz							-		-	>	500ml	14 and	Som al	1/ Lander /H			787
	Date Collected	8-7-8								>	8-9-8			→	8-5-88		د۔				000 475
N	Matrix Date	1									8				8.3			88-9-8) H
FICATION	₩ Wa	500 10	-	5	5	0					7	7	0	0				^			Seel
SAMPLE IDENTIFICA	otion	t // 2	115	1425	141	1430				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	141	154	1350	1430	1210	12.10	1140	to			tions:
AMPLE	Description	Load					\ 											seella			Special Instructions:
8	<u> </u>	13		_													→	Sur			Speci
	Client ID No.	01-259-MOC	1204-851-10	13-117-4001	100W-XII-50	1206 05 116 MADO!	03-116-Niel	DZ-116-MZQ	03-116-M501	15-116-M601	of 16 MOI	d-150-4021	d+251-1001	04-113-40a	18-126-MOOL	128-126 M21	0K-129-190	0 6-517-WOZZ			DS- Drum Solids
	e No.	1202 L	203	DO TO	Z	30kg	1207	- 1	g	4		C	N	- 1	1215	160	I	18	\parallel		
	Sample No.	1372	137,	1372	1572	137,	137	1376	137209	13721	1372	13721	13721	137214	1376	372	1378	1372			Matrix: S- Soil



Time Date Received By Relinquished By Items/Reason 1401881000 000 440 Time Date NA H Clark Received By **Relinquished By** Items/Reason Collection Matrix: S- So W- WE O- Oil

Special Instructions: Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Many Special Matural Matural Many Special Matural Matural Many Special Matural Matural Many Special Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural Matural M	Client List FOEHL TS RFW Contact 10 law Ls Client Contact Sus La Date Due 8/15/58	Phone Project Nu	atrix Date Collected Container/Preservative	1 8-8-8 STONE 4.CA	WONT OUT	10 11 22	500 - 0 / J Cm,	" " " Sough I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I want I wa	1, 1, 1, 1, 50				1, 200 1/4. Call			→	1600 ly Mone	900	L/4	14 soly away	than Leston Sos	<u> </u>	24 CO01758	It with this ID. For Pet. Hydro, also, OHS 8/9/88	Date Time Items/Reason Relinquished By Received By	1. B418 09:42		
signed to SAMPLE IDENTIFICATION Description for Matrix A Subscription for Matrix A Special Instructions: A Received By Received By Shed By Received By Received By Received By Received By Received By Received By Received By Received By Received By Received By Received By Received By	FOEHL 175	Pr	F	1450	1000	100 1100		200	13		,	>	24/0			>	6,1	Las /	1/4	12 Doly awal	Lan Jesthe Son		758	to r	uos			
signed with the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st	Client Co	NO	atrix	3																	7	 	#	V		1. 86/18		
Client ID No Client ID No OT-521-W D7-521-W	SAMPLE IDENT	Client ID No. Description	let.			111/), ,	02.521: 11/21	27-521-W22	-521-W54	07-521-4621	11/2	523-WAD1	17-523- wry	10542-4601	-575-40041	>		0752kwo21		A		* Recitive	Relinquished By / // Received	Their Midwell			

Time Date のアス **ANALYSES REQUESTED** 6 30/mls Received By Date Due 8-15-58 **Project Number** RFW Contact Custody Transfer Record/Lab Work Request TDS 1002 Relinquished By Container/Preservative 16,00 by None Items/Reason Client Contact _ Gus A 98/H 000 Client USA Mariel 8418 09:40 Date Collected Time 8-8-8 Phone_ Date Matrix SAMPLE IDENTIFICATION E 1205 1355 Received By 250 1200 1150 13/8 Special Instructions: Description cekhter **Received By** Assigned to Relinquished By 102-507-4021 PM 25-5A- WOR 5-518-Wea 12-517 whi 15 - 11/6A 01-502 402 (01-505-WOZI 25 58 -WIZL C2-718-482 125/11/2/20 21-504-4012 01-50-10181 01-504-WZZ 1-50 m521 or forwhost 10245 az-50 15-516-WOL DS- Drum Solids DL- Drum Liquids X- Other Client ID No. CA2/98 ** Schonosovit 37303 137305 37296 137293 37295 37298 137302 Items/Reason 37294 37299 37307 Sample No. 37297 37304 137308 37306 37300 13730 Soil Water Oil 373 Matrix:

3	
'ککے	

Received By

Date_

Date Due 12-RFW Contact J

Custody Transfer Record/Lab Work Request

Client Contact 64 s Lo

ANALYSES REQUESTED Project Number 2628-11-02 Wes TDS PAda 4.50 Matrix Date Collected | Container/Preservative Sacre 88-9-8 Phone_ SAMPLE IDENTIFICATION Bound Withy 1030 W Special Instructions: Sea 1 0955 0845 0360 1150 100 Description, Assigned to 111-40 po d-253-Ma 04-112-MON 04-152-MOD 14-111-4201 24-111-4601 04-115-4001 07-241-AC 4-154-MOO 74-111-M101 04-255-400 24-249-MODI 07-241-NOI 67-142-50 07-291-4021 01-24-MIZI Cllent ID No. 129-142-621 72-14-521 37226 37220 PCGTS1 37228 37229 37330 37225 7232 37219 37323 37927 STABO Sample No. 137221 Soil Water Oil Matrix:

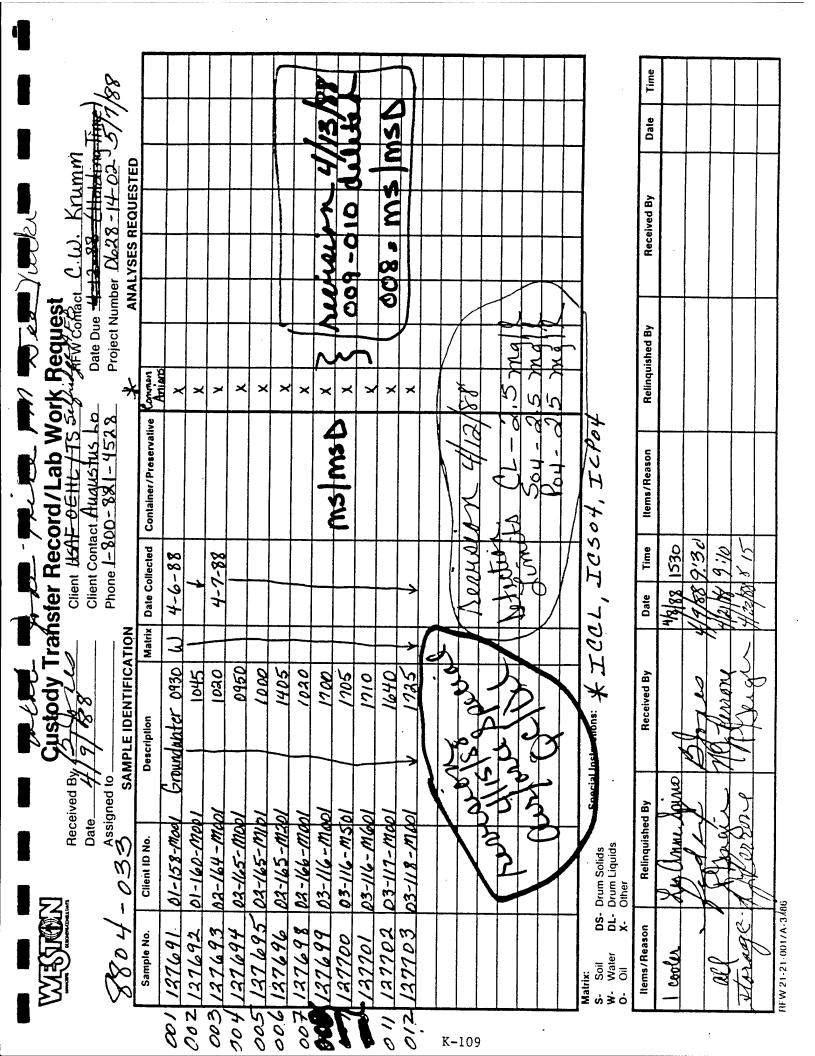
0924000 DS- Drum SolidsDL- Drum LiquidsX- Other

1 12/8 8/8 1000	Items/Reason	Relinguished By	Received By	Date	Time	Hems/Basson	Delinessiehen Br.			
Grapery Think Talls 8/8 2000	¢		X	-+			vernidaisaed by	neceived By	Date	Ē
	1 cools	Brown Shir	1 Fells	18/8	000				3745	77
HFW 21-21-001/A-3/86								77	a)	1
HFW 21-21-001/A-3/86				1	1			7,		
RFW 21-21-001/A-3/86										
RFW 21-21-001/A-3/86										
RFW 21-21-001/A-3/86			;							
RFW 21-21-001/A-3/86						,				
	RFW 21-21-001/A-3/	98							1	

Date Due Limited Halling Time 6/27/01 priginal per 8806-750 Project Number 0628-14'-02 **ANALYSES REQUESTED** RFW Contact JON Olander Received By ğ X X X X X X X Sustody Transfer Record/Lab Work Request Relinquished By Matrix Date Collected Container/Preservative Gram CI /F-X X X X X X Client Contact Hocushus LO Phone [-800 - 821-4528 11:to poly 1000 1000/ Items/Reason liter poly #000487 *0000* Time 88-02-9 88-18-9 Date ω 01-126-mo21 Grand water/1920 W SAMPLE IDENTIFICATION Sects CKINGK 080 1130 1130 1130 1300 0080 1676 Graund water/ 1215 4 000/ 10915 **Received By** 0/2/ 1315 130 929 1610 Special Instructions: Description Received By ∑ Assigned to 07-237-mb21 Relinquished By 25-233 - MD31 D8-198-mgal 12-103-mazi 15-243-ma31 07-243-m5b1 07-243-M621 25-167-MaBI 15-102-MILL 07-143-mo 31 25-231-moa 07-140-mobil 07-140-mip 05-132-mob 15-107-mas 15-167-mod DS- Drum Solids DL- Drum Liquids X- Other Client ID No. Ilems/Reason cooler Sample No. Water ō

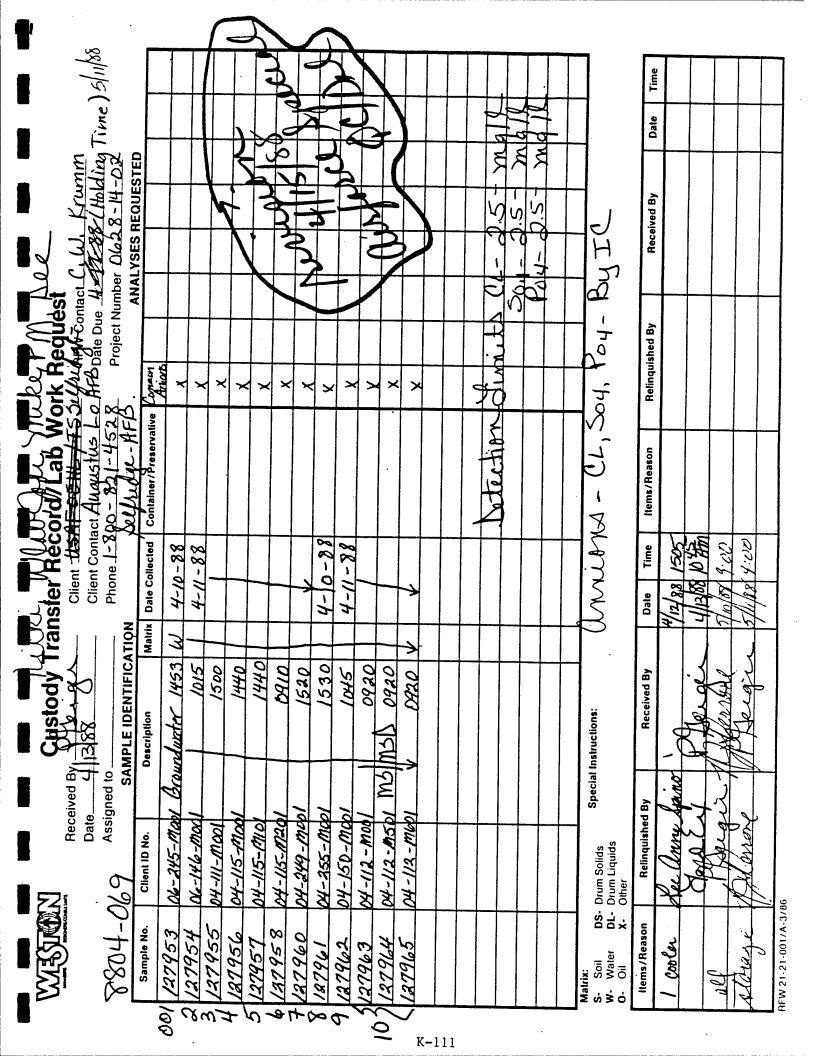
*																											٠
																							Time				
	,	lime)							_														Date				
Comment of the last	' ج	Date Due 11/4/XX (Helding II) Project Number 0/628 - 14-702	ALISES AEGUES I ED																			600-108	Received By				
LI MA	K Request	Date Due		Kalaas	1 >	X	× ×	(×	×	×	×											3	Relinquished By				
	Lab	1821 - 4528	dutainer/Preservative																			Mignal /	Items/Reason F	,			
Mary John,	Sier Record Client USAED	Phone 1-800	Date Collected Contr	4-6-88							->											9	Date Time Iter	1/88 1613			
	ran	TION	L	(3)							->							+	-		1			The last	18		-
	Chestody 1	WPLE IDE	Description	Goundwater 1115	0060	0850	OSO	0830	1200	1145	1635											Special Instructions:	Received By		134 res	0	
	Received By Date	ned				Mool	naol	Mool	Mool	Miol	naol												Relinquished By	mae Laimo	164		
	7	00	Cilent ID No.	01-122-M001	01-133-1700	DI-124-MOD	01-125-11001	01-156-1100	01-162-MO	DI-133-MIDI	101-134-maol											S- Drum Solids Drum Liquids Other	Relinc	Krelln	1		1/86
	TASKEN	8804	Sample No.		1		127648	127649	127650		127652										Matrix:	 Soil W- Water O- Oil X- 	llems/Reason				PFW 21-21-001/A-3/86
	imited to			8	20	E.	1/2	50	200	27	5	<u></u>	!	K-	107	7	<u>-</u>			. I	 		1	1	<u></u> .] ¤

•																		7		Time					
ج ف ف															,					Date					
Work Request Mork Request Age Date Due 5-6-88 Age Date Due 5-6-88 Age Project Number 0628-14-03															77	alms MUK				Received By					
Ork Request Brw Contact C.U. Date Due Too. Profest Number of	-								7 7						000	× 1.0.0.2		25	36	1					
The same	Container/Preservative														, , , , , , , , , , , , , , , , , , ,	alughura)	Simila OL	30	Items/Reason					
nsfer Record Client Contact H Phone 1-800-8	K Date Collected	83-7-h	~						-1									strain)	Date Time	4/21/55 A:10	Jank J. C.			
Custody Transf	Description Matrix	W 199-1901	123-11100/	190H-HB1	135-mool	156-001	10000-691	10101-651	134. M301 I	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		3000	18000	143		3		Special Instructions:		Received By	My Longer	(Maror	0		
Received Date	Client ID No.	11-10 ShatEl	646 01-	137647 01-1	-10 8h	127649 01-1	127650 01-11	137651 01-13	127652 01-15			•	2	1	5	1	>	Drum Solids	Drum Liquids Other	Relinquished By	Jana.	J. J. Brons	. (/)		
8804-009	Sample No.	100		ω	7	5	q	7	∞									DS.	Water DL-	Items/Reason	भ	Jarase	0	244.3	



Time Fransier Record/Lab Work Request

Client Water Augustus Lo Date Due (C. W. Krumm 5) Date 2 **ANALYSES REQUESTED** Project Number 0628-14-02 00 Received By 003 000 Relinquished By James Antorio CL, 504, toa Phone 1-800 - 321 -4538 Matrix Date Collected Container/Preservative otropiex Ilems/Reason 1600 Time しるよう 4-9-88 4-8-88 88 C Date SAMPLE IDENTIFICATION Grandwater 1600 1645 Groundanter 1440 1340 1645 1440 046 1645 1407 340 0/9 **Received By** Description **Received By** Assigned to Relinquished By 10011-247-11001 127862 06-144-MID 1001-103-11001 04-154-mod1 10-110-011-90 04-253-MON No-109-Mas 0/2-110-Mad 04-251-1100 D6-144-M20 06-144-1900 Drum Solids
 Drum Liquids
 Other Client ID No. . DL-X Items/Reason 127809 127859 127860 137863 127804 127808 Sample No. 127857 127861 Soil Water Oil Cooler Matrix: B



Time Dale **ANALYSES REQUESTED** Sustody Transfer Record / Lab Work Request Project Number 0428-14-02 Received By 1L, 504, Fay ## Date Due _# Relinquished By Matrix Date Collected Container/Preservative Compon × × × Phone 1-800-821- 4528 Client Contact Hugustils ナンプラー Items/Reason 1415 Time 4-11-88 88/EI/L) Date SAMPLE IDENTIFICATION Groundyn ter 1350 0945 1510 1420 1005 **Received By** Special Instructions: Description Received By Assigned to Relinquished By 01-257-17001 05-105-mal 05-255-mdol 01-259-MODI 01-268-100 04-113-1100 01-261-Mod 04-148-MO DS- Drum Solids DL- Drum Liquids X- Other Client ID No. 884-002 Items/Reason 128050 48052 128056 128048 128053 128049 28051 Contro Water Oil Soil

1		_			_																		
98/21	\$ () () () () () () () () () (Time					
¥	OF C	_				_												Date					
	1-09	- 151ED																					
	38 - 14							_	1									Received By					
22. E.	Date Due Accidente Project Number Dlog 8 - 14-03.	71 OE	-															8					
	Date Due Anner		-					_									SQ4.	<u> </u>					
/Lab Work Request	Date I	uo	¥					-				7					~ to	Relinquished By					
3 5	228	ve Caminon		4 ×			_					47.00					17, 1	Relin					
Se Se	34.5	reservati										1.6					۲- (ason					-
A N	Client Contact Augustus Lo. Phone 1-800- 931-4528	Container/Preservative										Las					Arun	Items/Reason					
Insfer Record	Contact 1-80	\vdash	+-				-				-						T	Time	340	が置	3.00	900	_
ier F	Client (Date Collected	4-13-88	-3								lel.						Date	1/88/1	6 8813	6/8/9	6 844	
rans	TION	<u> </u>	3	->				+					-						1/4	77	1	12	
ustody Trai	NTIFICA		2002	0840							(9						Received By		778	Sort	3	
Ast	4/15/7880 to SAMPLE IDENTIFICATION	Description	Groundupter 0915	->													ructions:	Recei	7	\$	100	1	
) Fi AB pe	# of pe	Det	Groun														Special Instructions:		OK'ND			0	-
Received By	Dates Assigned to SA	<u>o</u>	100	Mopl			+	-										Relinquished By	Inne de	7	\$	47/24	
	113.	Client ID No.	04-152-Mag	02-134-mobi													m Solids m Liquids er	Relinqu	n Out	7	**************************************	12	
77	111-1		Π.								-		-	H	$\frac{1}{1}$	\dashv	DS- Drum Solids DL- Drum Liquids X- Other	u _o	79	7			1
N STANK	1-4088	Sample No.	HL1881	128175													oil ater	Items/Reason	Conter	0,	ref	500	
\ES '	ا س		7	007 77												Matric	ဖ်≱ဝဲ	=			7,	₹ }	
	>		0	0						K	-11:	3			•								

ne)	_	-	·	-	-			_														_						
5/21/88 (Holding Time)							m21	3														P		lime				
12/2/ (#vld)							101	9	XX													L		Date				
							186	4 -	17571		7											Coca	-	1		+		
Krumm Krumm M + H 9 8-14-03 REQUESTED							3		7	1	1											elg	B positional B.	Aen Dà				
St act C. W. Krumm H-25 18 and 4 47 95 imber 1828-14-02 ANALYSES REQUESTED							40.4		3	7 2	1777		1						T			. 7	Becel	ופנפ				
St stact the stack umber							7		1/1	3	 											*	>	+				
Work Request Work Request For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm For Brew Contact C. L.U. Krumm Fo							N		î			\dagger			-	$\frac{1}{1}$					1	7	Pad By					
* 2. *	Dommon	×	×	\ ~	. ~		×	×			,	1 ×	/ ;	\ \ \ \	\ \ ×	\ \ \	\ \ \ \	/ >	/ ×	×	×	T	Relinguished By					
Wood 128	_								~	7	+	十	+			_		-			\dashv	13	-					
d/Lab Wo	/Preserv									748	1											0	eason					
Join Service	Container/Preservative								-	my my	1											204	Items/Reason					
client (EAF Client Contact Phone 1-200		88			88-				200			-									-	-6	<u>۽</u> ا	200	3	12.5	200	
fer Rec lient (LSA) Client Conta Phone [-2]	Date Collected	4-18-88		->	8-61-4	_		→	4-30-88	1												tofi	Page 7	+-	٦		Y	
√ 8	Matrix D	3						~	4 3	-												*61	٥	22	17		77	
EICAT E	2		0441	5011	90	90	9	10								,	10	1.			7		d By		3	25.	3	
Custody Tran	tion	11460		Н	1500	1500	1500	1118	9011			1400			1420	1450	11755	11015	1820	1300	005/1	ions:	Received By		1	1	3	
WPLE 200	Description	6 Pound water		_			_	>	S.W. /	1	7	5.6.1	,	1	S.W. /	5.W.	5.60.	5.10.	S.W.	S.W.	 	Special Instructions:			2	1		₩
ived f		Ground					ļ		Ş			5			S		•				_	Specia	- By	0.30	7	1,1	me	
Rece Date_ Assig	D No.	Med	-Mool	Mae!	Mool	miol	10011	Pro	-400	-450	-W60/	- (1)00	- (2)	-4120	01-501-4001	1901-502-10	100/7-	1901-905-60	03-507-1000	02-508-WOO!	1900-195-1900	ids · spir	Relinquished By	Nine	4	esp	6420	
	Client ID No.	67-138-Mag	69-239-MOD	09-241-mobi	08-127-Mae	08-127-m101	18-187-111001	1004-139	05-516-4000	DS-516-WSD	05-516-460	01-503-4100	01-503-410	01-503-112	1-501	7-502	04-504-4100	3-506	3-50	2-505		Drum Solids Drum Liquids Other	Reli	7 12	13	XX		
-4088	ė			T	0			\neg												. \	1	DS - D X · O				1	25	≡ ″ ⊒≟
NEON 8804	Sample No.	28516	285/8	38519	28520	138531	28522	28523	11682	28912	138913	138916	28917	31688	38914	28915	28920	28922	28923	28924	Matrix:	Soil Water Oil	Items/Reason	Booler		10	Ba	901,
≥ , , , , , , , , , , , , , , , , , , ,		7	7	Ţ	1	<u> </u>	7	7	11000		77	己	굿	그	거	015/12	016 12	7	7	0/4 [3		φŻό	∐			7	4	M.181
		9	9	9	a	005	8	9	Ø.	8	3	10	6	0	410	0	Ó	6	9	6,0	Š		K-1	114				1 - 3

Received By.

Date__

Custody Transfer Record/Lab Work Request

Client Contact Hugustus Phone 1-800 - 82

9

RFW Contact C. W. Krumm 5 Date Due 4-29-88 Cholding Time Project Number 06-38-14-53

	00	Assig	Assigned to			Phone 1-80	Phone 1-800 - 821 - 4528	Project Number 0628-14-63	
	804-183	-183	SAN	SAMPLE IDENTIFICATION	TION			ANALYSES REQUESTED	
	Sample No.	Client ID No.	٥	Description	Matrix	Date Collected	Container/Preservative	Солман. Ангият	
100	926881 100	04-510-4001	S.W	S.W. 11730	Q	4-20-88		X	
022	027 128927	100/1-115-100d		1650				X	
000	826821 000	10017-213-1001		1630				· ×	
proo	128929	10117-813-40101		1630				×	
025	128930	10212-11201	/	1615				×	
036	036128932	04-513-41001	7	1 1800		Ž		X	
TEO	027/128933	05-130-19001	_	Growductor 11330		4-21-88		X	
800	128934	10111-021-50		1330				χ	
939	128935	05-130-M201		1330		1		X	
030	030 138937	105-514-41001	\$	S.W. / 1030		188-05-1	ms/msb/	X	
180	081 148938	05-515-WOO!	/	0001				×	
000	052128939	105-517-Wod		1155			\vee	λ	
650	046881	1000-818-50	,	1340			1. in	X	
160	246861	06-519-41001		1620			, any and cx	X	
35	128943	1001-025-00	.	1645			1/27/00	×	
236	036 128944	19011-103-111061		Groundwater 0830	_	->	الم	X	
037	546881	1001-104-111001		0830		4-21-88		λ .	
950	258 128946	136-Mod		15/5				×	
650	138947	124-mid		1515				×	
040	128948	102-136-M3D	,	1515	>	7		×	
	Matrix: S- Soit D:	DS- Drum Solids	Special I	Special Instructions:					

DS- Drum SolidsDL- Drum LiquidsX- Other Matrix:
S- Soil
W- Water
O- Oil

items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
Confer	Lu. am Soing	0 ,	00/1 88/24/1	1700					
/	Ted 2	4 or 40	65.68 838 C	65.6					
		,							
			·						

K-115

REW 21-21-0017A-3786

		5 2	ゔ	Cuatody Tra	ran	sfer	Reco	ansfer Record/Lab Wo	SK R	Work Request		7			
	NO RECORDOR		Received By	CANO.		Client	USA	H-		RFW Contact C. W. Knumm	ict Cr L	· KD	Taux	8	& &
	,			0 0	1	Client	Client Contact Phone 1- 300	Client Contact (114445145 LOP)	1	Date Due	mher N	1828-14	140-1	The Ja	
	- HOSS	183	SAMPLE	SAMPLE IDENTIFICAT	TION					1	NALYSI	ုပ္သ	ESTED		
	Sample No.	Client ID No.	Description		Matrix	Date Collected	├	Container/Preservative	Corrent						
140	128921	01-505-40001	5.10.	1130	3	4-30-88	88-		×						
Tho	138950	07-521-41061		1459	_				×						
13		19-522-Wob1		1520				,	×						
7	738827	D7-523-WOD		Sahl	_				×						
0 45	4	1000-465-60	٠,	1425	7	7			×						
		•													
]															
K-1															
16															
					.										
								-							
-															
		opino and	Special Instructions:	ctions:											
	W. Water DL.	5- Drum Liquids Other													
	items/Reason	Relinquished By	3y	Received By		Date	Time	Items/Reason	Reling	Relinquished By		Received By	_	Date	Time
	1 cooler	Ku Onm	Ono	U		4/20/88	700								
		fedia	B	an k	1	6256	9.3								
		1				,									
												W-market			
()							_ 		7	1	■ <u>-</u>			-=	

Received By Custody Transfer Record/Lab Work Reminer **ANALYSES REQUESTED** Project Number 2628 -14-02 3 504 Matrix Date Collected | Container/Preservative * CT. PO4 Phone 1-800 - 821 - 4528 MS/ms/ 4-22-88 4-23-88 SAMPLE IDENTIFICATION Groundwater /1140 1430 1410 1530 0900 1555 1515 25.50 0915 700 5101 Special Instructions: Description Assigned to 12-132-1901 08-128-11001 10011-921-80 100W-0H-C 15-233-1100 27-162-1900 77-14X-1700 17-237-1100 7-243-mool 1001-1101-8 162-167-1201 12-231-May DS- Drum Solids DL- Drum Liquids X- Other Client ID No. 8804-210 Sample No. 29019 129020 129017 129022 139063 129023 129024 129059 129064 129060 129025 129061 Soil Water Oil Matrix: 200 クエのか 40

Time Date Received By Relinquished By Items/Reason Time Date Received By **Relinquished By** Items/Reason tosta

RFW 21-21-001/A-3/86

Time Date Due 5-17-88 (Holding Time) 6-11-88 600 Date # 54 FRIDGE ANALYSES REQUESTED to Ocm Project Number 14-82 Custody Transfer Record/Lab Work Request **Received By** 7() Relinquished By Erz Common Container/Preservative Client Contact Augustus Lo CEVISION-016 030 De 16 16 0-3 Phone 1-200-821-4578 003,015 Items/Reason 014 MS MS Client #54F CHIL Thyan 0 168 19.35 9.00 Matrix Date Collected 1530 88-01-5 Date 2007 2007 2007 SAMPLE IDENTIFICATION Surface Water (1540 W 1230 1015 1730 1730 1540 1820 1630 1835 **Received By** 1830 1415 1835 2145 7635 1805 008/ 1735 Special Instructions:.* Description RS mSD Received By Assigned to and Relinquished By 01-503-41002 130186 N 501 WAS 04-512-6802 15-516-6102 15-516-10602 01-505-41002 2007-515-50 15-57-W22 15-518-41002 06-519-61002 01-503-61102 04-510-41002 15-514-1002 4-503-4POZ 04-511-0002 14-512-41002 94-513-WX 04-512-61102 DS- Drum SolidsDL- Drum LiquidsX- Other Client ID No. 1386 30192 182 tems/Reason 130/80 130193 30195 30196 30200 30204 130181 30108 30199 8805 130183 130194 Sample No. 13018 coxac3020 Sections Water Oil 301 Soil

Date Due 5-19-88 (Holding Time) 6-11-88 **ANALYSES REQUESTED** RFW Contact C.W. Kumm Project Number *0628-14-02* Received By 2 1 1 1 Client USAE OFHE 1 TY Request × Client Contact *Augustus Lo* Phone *[-810-821 - 4578* Matrix Date Collected 5-10-88 SAMPLE IDENTIFICATION 2025 2055 Surface Water 11845 2035 1540 1445 1610 1510 1700 1615 1515 Description MS-MSD Assigned to 01-18/1/1002 De 50111502 06-520-4002 77-529-4002 07-524-(1002 02-507-41002 02-508-6002 12-509-14002 07-521-4002 77-522-11003 DI-501-4ND2 01-502-6003 Client ID No. 885-386 30208 30190 30207 30178 30209 30188 30184 30179 30210 Sample No. 3019 13021 K-119

Special Instructions:

DS- Drum SolidsDL- Drum LiquidsX- Other Matrix:
S- Soil
W- Water
O- Oil

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
lu.	Leallan Sains	V	\$8/EU/S	0ES1 88/E/S					
)	ledel	Bline s	514/68 9:30	9:30					
		/	/						

z z Discrepancies Between Sample Labels and 600 1 Present Uparrageceipt mple Leaking (Improperly Properly Preserved 2 Ambient of Chilled NOTES: **WESTON Analytics** 3 Received Broken/ z 1 Shipped/or Hand-Beliv6red 5 Received Within Hobling Times of Samples Y COC Record Was: Use Only Samples Were: COC Tape Was: 1 Present on Package (2 Unbroken 3 Present og 4 Unbroken NOTES: Package Sealed) NOTES: MOTES: NOTES: MOTES Record? NOTES: Custody Transfer Record/Lab Work Request Time Date 2 Received by 770 ٢ Relinguished by 多 Plastic-B 799 <u>უ</u> Item/Reason Containers/Volume ANALYSES PEQUESTED Date Collected 831199 #/Type Container Refrigerator# Preservative 945 學 9.4 Matrix Special Instructions: Date / 2000 ashash accompagate ceived by Client ID/Description 07-243 moal 07-237-mod 07-142-mas 07-140-mia - 140 - mag 63-102 - mos 1 DL - Drum Liquids F - Fish MAH HEN DS - Drum Solids S. P. Date Due Phickra D. 1-800 X - Other Relinguished by WESTON Analytics Use Only ee! W - Water O - Oil A - Air Client Contact/Phone 67 Date Rec'd. __ **RFW Contact** Item/Reason SE - Sediment SO - Solid **Work Order** WA Use Only 11.225 8 Clent Metrix: S - Soll

1.

RFW 21-21-001/A-5/88

7-115

WESTON Analytics Use Only Saperes Were: VShipped or Hand- Deliverge NOTES: 2 Ambient or Chilled NOTES: 3 Received Broken/ Leaking (Improperly Sealed) V NOTES: N NOTES: A Properly Preserved V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V NOTES: V N	COC Tape Was: 1 Present op Outer Package Y 2 Unbroken Package Y 3 Present op Saggble 4 Unbroken De Enple NOTES: Y N	COC Record Was: 1 Present UpontReceipt of Samples Y Discrepancies Between Sample Labels and Coc Record? NOTES: 7 115
WESTON Analytics Use Only WESTON Analytics Use Only Custody Transfer Record/Lab Work Request Custody Transfer Record/Lab Work Request Custody Transfer Record/Lab Work Request Client Oblight 14 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mainth: W-Water DS-Drum Solids Special Instructions: Western A-Air F-Fish	an Aeilnau

RFW 21-21-001/A-5/88

	WESTON Analytics	Samples Were:	(1 Shipped or Hand-	NOTES:	2 Ambient or Chilled	NOTES:	Leaking (Improperly	Sealed)	/	4 Properly Preserved	z . (.)	NOTES:	5 Received Within	Halding Times	NOTES:		COC Tape Was:	1 Present or action	of Caller	3 Present on Carolle		4 Unbroken Artsample NOTES: Y N	COC Record Was:	of Samples Y N	Discrepancies Between	Sample Labels and COC Record?	NOTES:
						_			100	4	-	7	1			_		\perp					Time				
Jest					·	-		7	7		+	70H0	+	\dashv		-	-		-	_	\dashv	\	Date				
$\mathcal{L}_{\mathbf{z}}$ $\mathcal{P}_{\mathbf{m}}$								Nesthi	\$ 1			Ω <u></u>										00/10el	Received by				
iki, Walk Arti Mee PM, Dee Lest Transfer Record/Lab Work Request					100 FOS		7)								1 200	7					force-special OC,	Relinquished by				
Sfer Rec	*	tainer	Volume	•	ES • (1)	Date Collected	1 88 00	77 889 OC								- 1	807					Sufer	Item/Reason				
(KS)	Refrigerator#	#/Type Container	_ Containers/	Preservative	ANALYSES	Matrix Date Colle	d (M	<u>, 9</u>														tions:	Date Time	100 P	118 91c		
WESTON Analytics Use Only Custoc	454	Jelhinge AFA	1 00008 14-02	10 22 88 pate pue 7 30 88		Client ID/Description	١	08-128- m021				0 , 77		A Demarka	10 accompate	and from pertar						W - Water DS - Drum Solids Special Instructions O - Oil DL - Drum Liquids A - Air F - Fish X - Other	Relinquished by Thiceived by		Marine Mariai		
WESTON An	9088	Client	Work Order	1 _ 1	RFW Contact Client Contact/Phone	WA Use Only Leb ID	100	500													Metal	diment iid	item/Reason	Och	atorasc	0	

RFW 21-21-001/A-5/88



APPENDIX L DATA VALIDATION TABLES

FIELD NUMBER	RFW NUMBER		E DATE			ANALYTES (mg/kg)	VALIDITY
BATCH: 12019	3-120198		12/17/87	MTHCHLOR	ACETONE	TOLUENE	ALL VALID EXCEPT AS LISTED
05-402-B301	120193	TB	12/22/87	0.014		<.002	ALL VALID EXCEPT AS LISTED
999MB1	LQC120193	MB	12/22/87		<.006		
999MB1			12/22/87		<.006		
				0.07		0.01	VALID VALUES
05-401-B001		I	12/22/87	0.009		••••	NOT VALID
05-401-B001	120194	SP	12/22/87		0.017		NOT VALID
05-401-B001	120194	SP DU	P12/22/87	0.007	0.013		NOT VALID
05-401-B002	120195	I	12/22/87	0.01			NOT VALID
05-401-B003		I	12/22/87	<.005	0.022		NOT VALID
05-402-B001	120197	I	12/22/87	<.006	0.015		NOT VALID
05-402-в002	120198	1	12/22/87 12/22/87 12/22/87	<.005	0.024		NOT VALID
				•••••			
BATCH: 12030	5-1230317		12/17/87		ACETONE	TCA111	ALL VALID EXCEPT AS LISTED
05-404-8301			12/31/87	0.012	0.032	0.01	
999MB1	LQC120305	MB	12/29/87		<.005		
999MB1	LQC120309	MB	12/30/87		<.006		
999MB1	LQC120312	MB	12/31/87		<.006		
				0.06	0.16	0.05	VALID VALUES
05-402-B003		I	12/29/87	0.015	0.012		NOT VALID
05-403-B001	120306	I	12/29/87	0.006	<.010		NOT VALID
05-403-в002	120307	I	12/30/87	0.009	0.029	<.003	NOT VALID
05-403-в003	120308	I	12/30/87	0.015	0.034	<.004	NOT VALID
05-404-B001	120309	I	12/31/87	0.007	0.039		NOT VALID
05-404-B002	120310	I	12/31/87	0.007	0.057		NOT VALID
	120311	1	12/31/87	0.007	0.032	0.007	NOT VALID
05-404-B003			12/71/07	0.01		0.049	NOT VALID
05-404-B003 05-405-B001	120313	I	12/31/87	0.01			
05-404-B003 05-405-B001 05-405-B002	120313 120314	I I	12/31/87	0.006	0.094	0.038	NOT VALID
05-404-B003 05-405-B001 05-405-B002 05-405-B003	120313 120314 120315	_			0.094 0.054	0.038 0.034	NOT VALID
05-404-B003 05-405-B001 05-405-B002	120313 120314	I	12/31/87	0.006			NOT VALID NOT VALID NOT VALID

MTHCHLOR - METHYLENE CHLORIDE

MEK - 2-BUTANONE

MIBK - 4-METHYL-2-PENTANONE

MB - METHOD BLANK

TB - TRIP BLANK

DUP - DUPLICATE

SP - SPIKE

SP DUP - SPIKE DUPLICATE

	RFW NUMBER					ANALYTES (mg/kg)	VALIDITY
BATCH: 120350							ALL VALID EXCEPT AS LISTE
04-410-B301				0.005			
	LQC120350				<.002		
	LQC120361			<.001			
			., .,	0.025			VALID VALUES
4-406-B001	120350	I	1/2/88	<.005			NOT VALID
4-406-B002	120351		1/2/88	<.005			NOT VALID -
04-406-8002 04-406-8003	120352		1/2/88	<.003			NOT VALID
04-407-в001	120353		1/2/88	<.004			NOT VALID
04-407-воо2	120354		1/2/88	<.005			NOT VALID
04-407-вооз	120355		1/2/88	0.013			NOT VALID
04-408-B001	120356		1/2/88	0.009			NOT VALID
04-408-B101	120357		1/2/88	0.009			NOT VALID
04-408-B101	120357		1/2/88	0.007			NOT VALID
04-408-B101	120357			<.004			NOT VALID
04-408-B002	120357 120358	i.	1/2/88	,	<.010		NOT VALID
04-408-B003	120434		1/2/88	0.019			NOT VALID
04-409-B001	120359		1/2/88	0.017	<.005	•	NOT VALID
04-409-B002	120360		1/2/88		<.011		NOT VALID
04-409-воо2	120361		1/4/88	0.008			NOT VALID
04-410-B001	120362		1/4/88				NOT VALID
04-410-B002	120363		1/2/88	0.011 <.002	<.008		NOT VALID
				<.002	<.007		NOT VALID
04-410-8102 04-410-8003	120365	DUP	1/2/88	0.012	<.003		NOT VALID
BATCH: 120434	4-120443		12/22/87	MTHCHLOR	ACETONE		ALL VALID EXCEPT AS LISTE
04-412-8303	120443	TB	1/4/88	0.008	<.005		
	LQC120440					0.005	
999MB1	LQC120443	MB	1/4/88			<.0046	
				0.04	0.025	0.025	VALID VALUES
04-408-B003	120434 120435	I	1/4/88	0.019 0.039	0.013	<.004	NOT VALID
04-409-B003	120435	I	1/4/88	0.039	<.009	<.004	NOT VALID
04-411-8001	120436	I	1/4/88	0.009	0.014		NOT VALID
04-411-B001	120437	I	1/4/88	<.004	<.010	0.006	NOT VALID
04-411-B002	120438	I	1/4/88	0.018			NOT VALID
04-411-B003	120439	I	1/4/88	<.003 <.003	<.009	0.007	NOT VALID
04-411-B003	120439		1/4/88	<.003	<.005	0.007	NOT VALID
04-411-B003	120439			<.003	<.006	0.012	NOT VALID
04-412-8001	120440 120441	I	1/4/88			0.009	NOT VALID
04-412-8002	120441	I	1/4/88	<.003		0.014	NOT VALID
04-412-B003	120442	ī	1/4/88			0.016	NOT VALID

MTHCHLOR - METHYLENE CHLORIDE

MEK - 2-BUTANONE

MIBK - 4-METHYL-2-PENTANONE

MB - METHOD BLANK

TB - TRIP BLANK

DUP - DUPLICATE

SP - SPIKE

SP-DUP - SPIKE DUPLICATE

FIELD Number						ANALYTES (mg/	kg)	VALIDITY
BATCH: 121082	2-121093		1/5/88	MTHCHLOR	ACETONE			ALL VALID EXCEPT AS LISTED
999MB1	LQC121082	MB	1/7/88					
999MB1 999MB1	LQC121085	MB	1/8/88	<.002	<.008			
			•	0.01	0.04	·		VALID VALUES
04-413-8001	121082	I	1/8/88	0.009				NOT VALID
04-413-B001	121082	SP	1/8/88	0.006				NOT VALID
04-413-B001	121082	SP DU	P1/8/88	0.01				NOT VALID
04-413-B001 04-413-B002	121083	I	1/8/88	0.009				NOT VALID
04-414-B001	121086	I	1/8/88		0.016			NOT VALID
04-415-B002	121090	I	1/8/88	<.006				NOT VALID
BATCH: 121269	-121288		1/7/88	MTHCHLOR	ACETONE	• • • • • • • • • • • • • • • • • • • •		ALL VALID EXCEPT AS LISTED
05-417-B301	121269	TB	1/8/88	0.017				יים יים באסביר אס בייסובט
999MB1	LQC121269) MB	1/8/88	< 002	<.008			
999M81	LQC121085	MB	1/8/88	<.002	<.008			
				0 025	0.04			VALID VALUES
05-416-B001	121270	I	1/8/88	<.005				NOT VALID
05-416-B002	121271	I	1/8/88	<.005 <.004				NOT VALID
999MB1	LQC121272	MB	1/9/88		<.004			
				0.085				VALID VALUES
05-416-в102	121272	DUP	1/9/88		0.016			NOT VALID
05-416-8003	121273	I	1/9/88	•				NOT VALID
05-417-B001	121274	I	1/9/88		<.012			NOT VALID
05-417-8002	121276		1/9/88		0.015			NOT VALID
999MB1	LQC121279		1/11/88		<.009	•		not mere
				0.085				VALID VALUES
03-418-B001	121278	I	1/11/88		0.023			NOT VALID
03-418-8101	121279 121280	DUP	1/11/88		0.033			NOT VALID
03-419-8001	121280	I	1/11/88	<.005				NOT VALID
03-419-B002	121282	I	1/11/88	<.005 0.008			•	NOT VALID
03-418-B002	121283	I		<.006	0.027			NOT VALID
03-418-B002 03-418-B003	121284	1	1/11/88		0.025			NOT VALID
03-419-8003	121285	Ī	1/11/88	0.009				NOT VALID
999MB1	LQC121286	_		0.007	<.005		•	NOT WELD
			.,,	0.085				VALID VALUES
03-420-в002	121287	I	1/12/88	••••	0.06		•	NOT VALID
BATCH: 121378	-121397		1/9/88	MTHCHLOR	ACETONE	MEK TOLUE	NF	ALL VALID EXCEPT AS LISTED
02-424-B303	121397	ТВ	1/9/88 1/14/88	0.009			.006	ALL THEID EXCEPT AS ETSTED
	LQC121382			<.004	<.008	0.015	.000	
999MB1	LQC121397	MB	1/13/88	1.004	<.004			
			.,,	0.045	0.04	0.075	0.03	VALID VALUES
05-421-8001	121378	I	1/12/88		<.008	0.0.5		NOT VALID
05-421-8002	121379	ī	1/12/88		0.02			NOT VALID
02-422-8003	121383	i	1/12/88	<.006	0.027			NOT VALID
02-423-B002	121386	Ī	1/12/88	<.006	0.024			
02-423-B003	121387		1/12/88	<.003	0.024			NOT VALID
02-424-B002	121389	i	1/12/88	٠.٥٥٥	0.022			NOT VALID
02-424-8003	121390	I	1/12/88	<.006	0.022			NOT VALID
•		•	., 12,00		0.032			NOT VALID

MTHCHLOR - METHYLENE CHLORIDE

MEK - 2-BUTANONE

MIBK - 4-METHYL-2-PENTANONE

MB - METHOD BLANK

TB - TRIP BLANK

DUP - DUPLICATE

SP - SPIKE

SP DUP - SPIKE DUPLICATE

FIELD Number	RFW :					ANALYTES	(mg/kg)		VALIDITY
HONDER									
BATCH: 121468				MTHCHLOR	ACETONE			MIBK	ALL VALID EXCEPT AS LISTED
7-429-B303	121479	TB	1/18/88	0.015					
799MB1	LQC121471	MB	1/18/88	<.001 <.001	0.012			<.002	
799MB1	LQC121479	MB	1/18/88	<.001	0.012			<.002	
				0.075			0.03	0.01	VALID VALUES
7-428-B001			1/18/88						NOT VALID
7-428-B002			1/18/88	<.002			<.007		NOT VALID
7-428-8102			1/18/88	<.002					NOT VALID
7-428-8003	121474		1/18/88		0.046		<.011		NOT VALID
7-429-B001	121476		1/19/88		<.009				NOT VALID
7-429-B001	121476	SP	1/19/88		<.007				NOT VALID
07-429-8001 07-429-8002	121476	SP DU	1/19/88		<.007				NOT VALID
07-429-B002	121477		1/19/88		0.027				NOT VALID
07-429-B003	121478		1/19/88		0.02				NOT VALID
BATCH: 122410				MTHCHLOR	ACETONE				ALL VALID EXCEPT AS LISTED
01-363-B301	122411	TB	1/27/88	0.011					
999MB1	LQC122410	MB	1/27/88						
999MB1	LQC122411	MB	1/27/88	<.005					
				0.055					VALID VALUES
01-363-B001	122410	SP	1/27/88		0.026				NOT VALID
BATCH: 12308	6-123089		2/2/88	MTHCHLOR	ACETONE	MEK	TOLUENE		ALL VALID EXCEPT AS LISTED
36-347-B301	123087	TB	2/4/88	0.011	<.006		0.015		
999MB1	LQC123086	MB	2/3/88	<.002		<.004	<.004		
999MB1	LQC123087	MB	2/3/88				<.004		
				0.055	0.03	0.02	0.075		VALID VALUES
06-347-B001	123086	I	2/3/88		0.018		0.008		NOT VALID
999MB1	LQC123088	в мв	2/4/88			•			
				0.055	0.03		0.075		VALID VALUES
01-259-M001	123088	I	2/4/88				0.065		NOT VALID
01-259-M001 06-345-M001	123089	Ī					<.004		NOT VALID
06-345-M001	123089	I		0.007					NOT VALID
06-345-M001 06-345-M001	123089	I	2/4/88		<.010				NOT VALID
BATCH: 12336	9-123370		2/3/88	MTHCHLOR	ACETONE			TOLUENE	ALL VALID EXCEPT AS LISTER
01-261-M301		TB	2/10/88		<.004			<.004	
	LQC123370				<.003				
	3-2				0.02		0.14	0.02	VALID VALUES
01-261-M001	123369	I	2/10/88				0.019		NOT VALID
01-261-M001	123369	SP	2/10/88	0.025					NOT VALID
01-261-M001				0.037					NOT VALID

MTHCHLOR - METHYLENE CHLORIDE

MEK - 2-BUTANONE

MIBK - 4-METHYL-2-PENTANONE

MB - METHOD BLANK

TB - TRIP BLANK

DUP - DUPLICATE

SP - SPIKE

SP DUP - SPIKE DUPLICATE

FIELD NUMBER	RFW NUMBER	SAMPL TYPE	_	•••••		ANALYTES (mg/kg)	VALIDITY
BATCH: 126649	- 126650		3/22/88	MTHCHLOR	ACETONE		ALL VALID EXCEPT AS LISTED
01/357-8301	126650	TB	3/24/88	0.015	<.006		
999MB1	LQC126649	MB	3/24/88	<.005			
				0.075	0.03		VALID VALUES.
01-357-B001	126649	I	3/24/88		0.015		NOT VALID

MTHCHLOR - METHYLENE CHLORIDE
MEK - 2-BUTANONE
MIBK - 4-METHYL-2-PENTANONE
MB - METHOD BLANK
TB - TRIP BLANK
DUP - DUPLICATE
SP - SPIKE
SP DUP - SPIKE DUPLICATE
I - INVESTIGATIVE

TABLE L-2 SOIL SEMIVOLATILE ORGANICS VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD	RFW	SAMPLE	Ē		
NUMBER	NUMBER	TYPE		ANALYTES (mg/kg)	VALIDITY
BATCH: 120194				BIS(2-ETHYLHEXYL)PHTHALATE	ALL VALID EXCEPT AS LISTE
999MB1	120194	MB	1/6/88	<.08	
				0.4	VALID VALUE
05-401-B001	120194	I	1/6/88	<.14	NOT VALID
05-401-B002	120195	I	1/6/88	<.12	NOT VALID
05-401-8002	120195	SP	1/6/88	<.13	NOT VALID
05-401-B002	120195	SP DUF	1/6/88	<.09	NOT VALID
05-401-B003	120196	I	1/6/88	<.18	NOT VALID
05-402-B001	120197	I	1/6/88	<.12	NOT VALID
05-402-B002	120198	I	1/6/88	<.13	NOT VALID
BATCH: 120305-	120317		12/17/87	BIS(2-ETHYLHEXYL)PHTHALATE	ALL VALID EXCEPT AS LISTE
999MB1	LQC12030	5 MB		<.08	
				0.4	VALID VALUE
05-402-8003	120305	1	1/7/88	<.16	NOT VALID
05-402-B003	120305	-	1/7/88	<.14	NOT VALID
05-402-B003	120305		1/7/88	<.11	NOT VALID
05-403-B001	120306		1/7/88	<.14	NOT VALID
05-403-B002	120307	_	1/7/88	<.11	NOT VALID
05-403-B003	120308		1/7/88	<.11	NOT VALID
05-404-B001	120309		1/7/88	<.08	NOT VALID
05-404-B002	120310		1/7/88	<.09	NOT VALID
05-404-B003	120311		1/7/88	<.1	NOT VALID
05-405-B001	120313	-	1/7/88	<.16	NOT VALID
05-405-8002	120314			<.11	NOT VALID
05-405-B003	120315			<.15	NOT VALID
	120316	1	1/7/88	<.09	NOT VALID
05-403-B101	120317	I	1/7/88	<.11	NOT VALID
BATCH: 121270-			1/7/88		ALL VALID
• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •	
BATCH: 121378-	121397		1/9/88		ALL VALID
BATCH: 121468-			1/11/88		ALL VALID
BATCH: 122410-	122411		1/25/88		ALL VALID
BATCH: 123086-	123089		2/2/88		ALL VALID
BATCH: 123369-	123370		2/9/88		ALL VALID
BATCH: 126649-			3/22/88	BIS(2-ETHYLHEXYL)PHTHALATE	
999MB1	126649	МВ	4/8/88	0.03 0.15	VALID VALUE

TB - TRIP BLANK DUP - DUPLICATE

SP DUP - SPIKE DUPLICATE

I - INVESTIGATIVE

TABLE L-3 SOIL METAL VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD	RFW NUMBER	SAMPL	E	ANA	LYTES (ma/	. VALIDITY
					(1119)	kg) VALIDITY
BATCH: 120193						ALL VALID
BATCH: 120305	-120317		12/17/87			ALL VALID
BATCH: 121270	-121288		1/7/88			ALL VALID
BATCH: 121378	3-121397		1/9/88	COPPER	IRON	ALL VALID EXCEPT AS LISTED
999PB1	LQI 121378	MB	1/15/88			
999MB1	LQI121378 LQI121390 LQI121390) MB	1/19/88	4.2	4.4	
999PB1	LQI 121390) MB	1/19/88	4.2	4.4	
				21	22	VALID VALUES
05-421-B003 02-422-B001	121380	1	1/18/88	8.7 12		NOT VALID
02-422-B001	121381	1	1/18/88	12		NOT VALID
02-423-B001	121384	1	1/18/88	5		NOT VALID
02-423-B001 02-423-B101 02-424-B001	121385	D	1/18/88	8.5		NOT VALID
02-424-8001	121386	I	1/19/88	8.8		NOT VALID
02-424-B002	121389	1	1/19/88	19.4		NOT VALID
08-425-8001 08-425-8002	121391	I	1/19/88	6.9		NOT VALID
08-425-B002	121392	I	1/19/88	20.5		NOT VALID
08-425-B003 08-426-B001 08-426-B002	121393	I	1/19/88	17.7		NOT VALID
08-426-B001	121394	Ī	1/19/88	12.3		NOT VALID
08-426-B002	121395	I	1/19/88	19.5		NOT VALID
08-426-B003	121396	I	1/19/88	20.6		NOT VALID
BATCH: 121468	R-121470		1/11/88	CODDED	1 P O N	ALL VALID EXCEPT AS LISTED
999MB1	101121390	MR	1/10/88	4.2	4.4	ALL VALID EXCEPT AS EISTED
999PB1	101121300	MR	1/19/88	4.2	4.4	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	24.121570		., .,, 50	21	22	VALID VALUES
08-427-B001	121468	ī	1/19/88	3.7		VALID VALUES NOT VALID
08-427-B002	121469	ī	1/19/88	18 7		NOT VALID
08-427-B002 08-427-B003	121470	ī	1/19/88	16		NOT VALID NOT VALID
						••••••
BATCH: 122410			1/25/88	CALCIUM	SILICON	ALL VALID
	LQI122410					
				55.5	114.5	VALID VALUES
BATCH: 123086						ALL VALID EXCEPT AS LISTED
999MB1						
			2,, 00	64.5		
06-347-B001	123086	Ţ	2/17/88	16	8	NOT VALID
	123086					NOT VALID
01-359-M001						NOT VALID
06-345-M001						NOT VALID
			7/22/00			
BATCH: 126649			3/22/88			411 141 15
999MB1	126649	MB	4/8/88	1		ALL VALID
				5		VALID VALUE
MB - METHOD B	LANK		SP - SPI	 KF		
DUD - DUDLICA			OF 0110			

DUP - DUPLICATE

SP SUP - SPIKE DUPLICATE

I - INVESTIGATIVE

TABLE L-4 WATER VOLATILE ORGANICS VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD NUMBER	RFW NI IMREP		DATE		ANALYTES	(ua/L)	VALIDITY
					MARTIES		AVCIDILL
BATCH: 12764	5-127652		4/6/88	MTHCHLOR	TCLME	TOLUENE	ALL VALID EXCEPT AS LISTED
01-124-M201	127652	EB	4/13/88	2	6.5		
01-124-M301	127653	TB	4/13/88	8		3	
01-124-M201 01-124-M301 01-124-M401	127654	AB	4/13/88		7.4		
999SB1	LQC127645	MB SP	4/13/88	2			
999SB1	LQC127647	MB SP	4/20/88	2			
		•		40	37	15	VALID VALUES
01-124-M001	127647	I	4/12/88	14			NOT VALID
01-124-M001 01-125-M001	127648	I	4/12/88	2			NOT VALID
BATCH: 12769 02-165-M201	1-127704		4/6/88	MTHCHLOR	TCLME		ALL VALID EXCEPT AS LISTED
02-165-M201	127696	EB	4/14/88	5			
02-165-M401					5.8		
03-118-M301	127704	TB	4/14/88				
999MB1	LQC127647	MB	4/20/88				
999SB1	LCC127647	MB SP	4/20/88	2			
	LQC127692		4/13/88				
999SB1	LQC127692 LQC127697	MB SP	4/14/88	4		•	
999MB1	LQC127697	MB	4/13/88	2			
				25	29		VALID VALUES
02-165-M001 02-165-M101	127694	I	4/13/88	6			NOT VALID
02-165-M101	127695	DUP	4/13/88	2			NOT VALID
03-116-M501	127700	SP	4/14/88	3			NOT VALID
BATCH: 12780				MTHCHLOR			ALL VALID EXCEPT AS LISTED
06-247-M301				_			
999SB1	LCC127804	MB SP	4/20/88	2			
04-100 4004	427007		/ (20 :00	10			VALID VALUE
06-108-M001 06-247-M001							NOT VALID
00-247-MUU1	127809			3			NOT VALID
BATCH: 12785	7-127864		4/9/88	MTHCHLOR			ALL VALID
04-154-M301	127858	TB	4/17/88				
06-144-M201 06-144-M401	127863	EB	4/18/88		4.9		
06-144-M401	127864	EB	4/18/88				
				· 20	24.5		VALID VALUES

I - INVESTIGATIVE TB - TRIP BLANK

DUP - DUPLICATE MB - METHOD BLANK

AB - AMBIENT BLANK

SP MP - METHOD SPIKE

EB - EQUIPMENT BLANK

MTHCHLOR - METHYLENE CHLORIDE

SP - SPIKE

TCLME - CHLOROFORM

SP DUP - SPIKE DUPLICATE

BDCME - BROMODICHLOROMETHANE

FIELD	RFW	SAMPLE					•••••
NUMBER	NUMBER	TYPE	DATE		ANALYTES	(ug/L)	VALIDITY
BATCH: 128911-	-128953		4/21/88	TCLME	BDCME	• • • • • • • • • • • • • • • • • • • •	ALL VALID EXCEPT AS LISTED
05-518-W301	128941	TB	5/02/88		200,12		712 7712 2702. 7 70 21012
05-130-M201	128935	EB	5/02/88	3.6	0.5		
05-130-M401	128936	AB	5/02/88	3.4			
07-136-M201	128948	EB	4/28/88				
07-136-M401	128949	AB	4/28/88				
			.,	18	2.5		VALID VALUES
05-518-W301	128941	TB	5/02/88				
01-503-W201	128918	EΒ	5/1/88	3.8			
01-503-W401	128919	AB	5/1/88	3.1			
04-512-W201	128930	EB	. 4/27/88				•
04-512-W401	128930	AB	4/27/88				
				19			VALID VALUES
02-508-W001	128924	I	5/01/88	4			NOT VALID
02-509-W001	128925	I	5/02/88	2	•		NOT VALID
01-514-W001	128937	I	4/27/88	0.6			NOT VALID
06-520-W001	128943	I	5/02/88	0.3			NOT VALID
BATCH: 129017	-129025		4/21/88	TCLME			ALL VALID
	129018			0.4			ALL TALID
	129021	AB		•			
			,,,	2			VALID VALUE
BATCH: 129059-							ALL WALTS
05-231-M301	129062	ТВ	5/03/88				ALL VALID
03.531-M301	127002	10	3/03/00				
BATCH: 130178			5/11/88	TCLME	BDCME		ALL VALID EXCEPT AS LISTED
02-507-W302	130189	TB	5/17/88				
01-503-W202	130182	EB	5/17/88	3.6			
01-503-W402	130183	AB	5/17/88	6	0.7		
04-512-W202	130196	EB	5/16/88				
04-512-W402	130197	AB	5/16/88				
				·30	3.5		VALID VALUES
01-503-W002	130180	I	5/17/88	4.5			NOT VALID
05-516-W002	130201	I	5/18/88	0.9			NOT VALID
05-516-W502	130202	SP .	5/18/88	2			NOT VALID
05-516-W602	130203	SP DUP	5/18/88	1.8			NOT VALID
05-517-W002	130204	I	5/18/88	2.7			NOT VALID
05-518-W002	130205	I	5/18/88	3			NOT VALID

I - INVESTIGATIVE DUP - DUPLICATE

TB - TRIP BLANK MB - METHOD BLANK

AB - AMBIENT BLANK SP MP - METHOD SPIKE

EB - EQUIPMENT BLANK MTHCHLOR - METHOLENE CHLORIDE

SP - SPIKE

TCLME - CHLOROFORM

SP DUP - SPIKE DUPLICATE

BDCME - BROMODICHLOROMETHANE

FIELD NUMBER	NUMBER	TYPE	DATE		ANALYTES	(ug/L)	VALIDITY	
BATCH: 127953 04-255-M301 04-115-M201 04-115-M401	-127959 127985	ТВ	4/10/88 4/20/88	MTHCHLOR 4			ALL VALID	
04-115-M401	12/939	An	4/20/00	20			VALID VALUE	
Batch: 127960	 -127962		4/11/88			•••••	ALL VALID	
04-255-M301	127985	TB	4/20/88	4 20			VALID VALUE .	
Batch: 127963 04-255-M301			4/11/88				ALL VALID	• • • • • • • •
				20			VALID VALUE NOT VALID	
04-112-M001 04-112-M601	127965	SP DUP	4/18/88	3		•	NOT VALID	
BATCH: 128048	-128056		4/12/88				'ALL VALID	
05-235- M 301								
BATCH: 128174 05-134-M301	-128175 128176	тв	4/12/88 4/19/88				ALL VALID	
BATCH: 128520 07-138-M310	-128519		4/19/88 4/20/88				ALL VALID	• • • • • • • • • • • • • • • • • • • •
I - INVESTIGA TB - TRIP BLAI AB - AMBIENT: EB - EQUIPMEN SP - SPIKE SP DUP - SPIK DATES REFER TO	TIVE NK BLANK T BLANK E DUPLICAT	·E	DUP - DU MB - MET SP MP - MTHCHLOR TCLME - BDCME -	PLICATE HOD BLANK METHOD SPI - METHYLE CHLOROFORM BROMODICHL	KE NE CHLORI 1	DE		

TABLE L-5 WATER SEMIVOLATILE ORGANICS VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

	RFW NUMBER				ANALYTES	(ma/L)	VALIDITY
••••••							
BATCH: 12764			4/6/88				ALL VALID EXCEPT AS LISTED
01-124-M201			4/11/88	<2			
999MB1		MB	4/08/88	<1			
	•			10			VALID VALUE
01-122-M001			4/13/88				NOT VALID
01-124-M001	127647	1	4/11/88	<1			NOT VALID .
01-162-M001 01-162-M001 01-162-M001	127650	I	4/08/88	<1			NOT VALID
01-162-M001	127650	SP	4/08/88	<4			NOT VALID
01-162-M001	127650	SP DUP	4/08/88	<2			NOT VALID
 BATCH: 12769	1-127800		4/6/88	neou		• • • • • • • • • • • • • • • • • • • •	ALL VALID EXCEPT AS LISTED
999MB1				-2			ALL VALID EXCEPT AS LISTED
,,,,,,,,,,	240127071	MD	4/14/00	10			VALID VALUE
01-160-M001	127692	ī	4/14/88	<1			NOT VALID
06-108-M001	127804	i	4/14/88	<1			NOT VALID
01-160-M001 06-108-M001 06-109-M001	127805	· i	4/14/88	10 <1 <1 <1			NOT VALID
BATCH: 12786						DNPB	ALL VALID EXCEPT AS LISTED
999MB1			4/14/88	<2		_	
06-144-M201	12/863	EB	4/15/88 4/15/88	<2	48	<2	
04 177 4001	427074	_		10	240	10	VALID VALUE
06-144-M001	127861	I	4/15/88		<5	<2	NOT VALID
06-144-M101	12/862	I 	4/15/88		<1 	<3	NOT VALID
BATCH: 12795			4/7/88	DNPB			ALL VALID EXCEPT AS LISTED
999MB1	LQC127953	MB	4/19/88	<1			
•				5			VALID VALUE
06-245-M001	127953	I	4/19/88	<1			NOT VALID
DATOU- 1200/							
BATCH: 12804	0-128022	•	4/12/88	DNPB			ALL VALID EXCEPT AS LISTED
999MB1	LUC128048	1	4/19/88				
01-257-4004	1200/0	•	/ /10 /00	5			VALID VALUE
01-257-M001	128048	ī	4/19/88	<1			NOT VALID
01-263-M001 05-235-M001	128051	I	4/19/88	<1			NOT VALID
UJ-233-MUU]	128055	I	4/20/88	<1			NOT VALID

I - INVESTIGATIVE

DUP - DUPLICATE

EB - EQUIPMENT BLANK

SP - SPIKE

MB - METHOD BLANK

BZEHP - BIS(2-ETHYLHEXYL)PHTHALATE

SP MP - METHOD SPIKE

SP DUP - SPIKE DUPLICATE

DEHP - DIETHYLPHTHALATE DNPB - DI-N-BUTYLPHTHALATE

	RFW NUMBER	TYPE	DATE		ANALYTES (mg/L)	VALIDITY
BATCH: 128175	- 128175		4/12/88	DNPB		ALL VALID
999MB1	LQC128175	I	4/14/88	<1		
				5		VALID VALUE
BATCH: 128520	-128523		4/19/88	RZEHP	• • • • • • • • • • • • • • • • • • • •	ALL VALID EXCEPT AS LISTED
08-127-M201	128522	FR	4/21/88	< 3		ALL VALID EXCEPT AS LISTED
			4,2.,00	15		VALID VALUES .
08-127-M101	128521	DUP	4/21/88	<4		NOT VALID
08-127-M101 08-129-M001	128523	I	4/21/88	<4		NOT VALID
						•••••
BATCH: 128911	-128953		4/21/88	BZEHP	•	ALL VALID EXCEPT AS LISTED
05-130-M201	128935	EB	4/27/88	<7		
				35		VALID VALUES
05-130-M101						NOT VALID
01-503-W201	128918	EB	4/27/88			
	•			60		VALID VALUES
05-516-W001	128911	I		22	•	NÓT VALID
05-516-W501	128912	SP	4/25/88	25		NOT VALID
05-516-W601	128913 128914 128915	SP DUP	4/25/88	<6		NOT VALID
01-501-W001	128914	I	4/26/88	. <2		NOT VALID
01-502-W001	128915 .	I	4/26/88	<2		NOT VALID
01-503-W001	128916	I	4/25/88	<2		NOT VALID
01-504-W001	128920	I	4/27/88	34		NOT VALID
01-504-W001 01-505-W001 05-514-W001	128921	. I	4/27/88	25		NOT VALID
05-514-W001	128937	I	4/27/88	<2		NOT VALID
05-515-W001	128938	I	4/27/88	<2		NOT VALID
05-517-W001	128939	I	4/27/88	<7		NOT VALID
05-518-w001	128940	I	4/27/88	13		NOT VALID
06-519-W001	128939 128940 128942	I	4/27/88	25		NOT VALID
BATCH: 129017	-129060	• • • • • • • • • • • • • • • • • • • •	4/21/88			ALL VALID
BATCH: 129063						ALL VALID

I - INVESTIGATIVE

DUP - DUPLICATE

EB - EQUIPMENT BLANK

SP - SPIKE

MB - METHOD BLANK

BZEHP - BIS(2-ETHYLHEXYL)PHTHALATE

SP MP - METHOD SPIKE

DEHP - DIETHYLPHTHALATE

SP DUP - SPIKE DUPLICATE DNPB - DI-N-BUTYLPHTHALATE

FIELD NUMBER	RFW Number	SAMPLE TYPE	DATE		ANALYTES (mg/L)	VALIDITY .
BATCH: 130178	-130199		5/11/88	BZEHP		ALL VALID EXCEPT AS LISTED
01-503-W202	130182	EB	5/17/88			ALL THEID ENGLIT NO CIOICS
999MB1	LQC130178		5/17/88	25		
			-,,	125		VALID VALUES
01-501-W002	130178	I	5/17/88	58		NOT VALID
01-502-W002	130179	I	5/17/88	40		NOT VALID
01-503-W002	130180	ī	5/17/88			NOT VALID
01-503-W102	130181	-	5/17/88	45		NOT VALID
01-504-W002		I	5/17/88			NOT VALID
01-504-W502	130185	SP	5/17/88	20		NOT VALID
01-504-W602	130186	-	5/17/88	22		NOT VALID
01-505-W002			5/17/88	28		NOT VALID
05-514-W002	130199		5/17/88			NOT VALID
BATCH: 130200	-130207		5/11/88	BZEHP	•	ALL VALID EXCEPT AS LISTED
01-503-W202			5/17/88			ALL VALID EXCEPT AS LISTED
999MB1	LQC130200		5/19/88	18		
999SB1	LQC130200		5/19/88	15		
			2, 1,,00	90		VALID VALUE
05-515-W002	130200	ī	5/19/88	15		NOT VALID
	130201	-	5/19/88	16		NOT VALID
	130202	SP	5/19/88	19	•	NOT VALID
5-516-W602	130203	SP DUP	5/19/88	19		NOT VALID
05-517-W002 °		1	5/19/88	25		NOT VALID
05-518-W002	130205	ī	5/19/88	19		NOT VALID
			5/19/88	30		NOT VALID
06-520-W002	130207	ī	5/19/88	21		NOT VALID
						110: FALIV

I - INVESTIGATIVE

DUP - DUPLICATE SP - SPIKE

EB - EQUIPMENT BLANK MB - METHOD BLANK

BZEHP - BIS(2-ETHYLHEXYL)PHTHALATE

SP MP - METHOD SPIKE SP DUP - SPIKE DUPLICATE

DEHP - DIETHYLPHTHALATE

DNPB - DI-N-BUTYLPHTHALATE

TABLE L-6 WATER INORGANIC VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD NUMBER	RFW NUMBER	SAMPLE TYPE	DATE			ANALYTES	(mg/L)		VALIDITY
BATCH: 1276	45-127702	2	4/06/88	COD	FLUORIDE	AMMONIA	TDS		ALL VALID EXCEPT AS LISTE
01-124-M201	127652	E8	4/06/88	32	0.1	0.4	11		
02-165-M201	127696	EB	4/07/88		0.5				
			-	160	2.5	2	55		VALID VALUES
01-122-M001	127645	I	4/06/88	88*	0.3	0.6*			NOT VALID
01-123-M001	127646	I	4/06/88	64*	0.4	0.6*			NOT VALID
01-124-M001	127647	Ī	4/06/88		0.3	0.3*			NOT VALID
01-125-M001	127648	1	4/06/88	51*	0.3	2.1*			NOT VALID
01-156-M001		1	4/06/88		0.2	0.6*			NOT VALID
01-162-M001	127650	I	4/06/88	30*	0.2				NOT VALID
01-122-M101		DUP	4/06/88	100*	0.2	0.9*			NOT VALID
01-160-M001	127692	1	4/06/88	30*	0.2	0.8*			NOT VALID
02-164-M001		Ī	4/07/88		0.2				NOT VALID
02-165-M001		Ĭ	4/07/88		0.2				NOT VALID
02-165-M101		-	4/07/88		0.2				NOT VALID
02-166-M001		I	4/07/88		0.2				NOT VALID
03-116-M001		i	4/07/88		0.2				NOT VALID
03-116-M601		-			0.2				NOT VALID
03-117-M001		•			0.2				NOT VALID
BATCH: 1277				FLUORIDE		TOC		PHC	ALL VALID EXCEPT AS LISTE
06-144-M201	127863	₽B	4/09/88	0.5	0.3	1.8		2	
				2.5	1.5	9	50	10	VALID VALUES
03-118-M001		I	4/07/88			-			NOT VALID
06-108-M001		I	4/08/88		0.3				NOT VALID
06-109-M001		1	4/08/88						NOT VALID
06-110-M001		I	4/08/88		0.6	3.6			NOT VALID
06-110-M601		SP DUP	4/08/88		0.6	3.4			NOT VALID
06-247-M001		I	4/08/88		0.9	3.8		2	NOT VALID
04-154-M001	127857	I	4/09/88	0.2				1	NOT VALID
04-251-M001			4/09/88						NOT VALID
04-253-M001	127860	I	4/09/88						NOT VALID
06-144-M001	127861	I	4/09/88						NOT VALID
06-144-M101		-	4/09/88						NOT VALID
06-245-M001	127953	I	4/10/88						NOT VALID
06-146-M001	127954	I	4/11/88	0.3	. 0.5	4.6			NOT VALID
04-111-M001	127955	I	4/11/88	1.4					NOT VALID
04-115-M001			4/11/88						NOT VALID
04-115-M101	127057	,	4/11/88	0.9					NOT VALID

I - INVESTIGATIVE

DATES REFER TO WHEN BATCH WAS SHIUPPED AND WHEN SAMPLE WAS TAKEN.

ALK - ALKALINITY

EB - EQUIPMENT BLANK

COD - CHEMICAL OXYGEN DEMAND

MB - METHOD BLANK

TOC - TOTAL OXYGEN CARBON

SP MP - METHOD SPIKE TDS - TOTAL DISSOLVED SOLIDS SP DUP - SPIKE DUPLICATE PHC - PETROLEUM HYDROCARBONS

DUP - DUPLICATE

SP - SPIKE

^{*} INDICATES ANALYTE IS FOR INFORMATION PURPOSES ONLY

TABLE L-6 (Continued) WATER INORGANIC VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD NUMBER	RFW Number				A	IALYTES (ma/l)	. WALIDITY
						(mg/L)	VALIDITY
BATCH: 1279	58-12851	6		FLUORIDE			ALL VALID EXCEPT AS LISTED
04-115-M201	127958	EB	4/11/88	0.5			
				2.5			VALID VALUE
04-249-M001		I	4/11/88	0.4			NOT VALID
04-255-M001		I	4/10/88	0.5			NOT VALID
04-150-M001		I	4/11/88	0.2			NOT VALID
04-112-M001		I					NOT VALID
04-112-M601		SP DUP	4/11/88	0.3			NOT VALID
01-257-M001		I	4/12/88	0.3			NOT VALID
01-259-M001		1	4/12/88	0.3			NOT VALID
01-261-M001		1	4/12/88	0.2			NOT VALID
01-263-M001		I	4/12/88	0.3			NOT VALID
04-113-M001		I	4/12/88	0.5			NOT VALID
04-148-M001	128053	I	4/12/88	0.3			NOT VALID
05-105-M001	128054	1	4/12/88	. 0.3			NOT VALID
05-235-M001	128055	1	4/12/88	0.6			NOT VALID
04-152-M001		I		0.2			
05-134-M001	128175	I	4/13/88	0.2			NOT VALID
07-138-M001	128516	I	4/13/88	0.2			NOT VALID NOT VALID NOT VALID
BATCH: 1285			4/18/88		FLUORIDE	TDS	ALL VALID
08-127-M201	128522	EB	4/19/88		0.7	26	
.= .=.					3.5	130	VALID VALUES
07-239-M001		I	4/18/88		0.6		NOT VALID
07-241-M001		I	4/18/88		0.4		NOT VALID
08-127-M001		I	4/19/88		0.1		NOT VALID
08-127-M101			4/19/88		0.1		NOT VALID
08-129-M001		I	4/19/88		0.1		NOT VALID
01-503-W201	128918	EB	4/20/88	7			
				35	3		VALID VALUES
05-516-W001		I			0.2		NOT VALID
05-516-W601	128913		4/20/88	25	0.2		NOT VALID
01-501-W001			4/20/88		0.2		NOT VALID
01-502-W001		I	.,,		0.2		NOT VALID
01-503-W001	_	I	4/20/88		0.2		NOT VALID
01-503-W101			.,,		0.2		NOT VALID
01-504-W001		I	4/20/88	22 10	0.1		NOT VALID
01-505-W001		I	4/20/88	10	0.2	•	NOT VALID
02-506-W001		I	4/20/88		0.1		NOT VALID
02-507-W001			4/20/88		0.5		NOT VALID
02-508-W001		1	4/20/88		- 0.1		NOT VALID
02-509-W001	128925	I	4/20/88		0.1		NOT VALID
							• • • • • • • • • • • • • • • • • • • •

I - INVESTIGATIVE

ALK - ALKALINITY

EB - EQUIPMENT BLANK

COD - CHEMICAL OXYGEN DEMAND

MB - METHOD BLANK

TOC - TOTAL OXYGEN CARBON

SP MP - METHOD SPIKE

TDS - TOTAL DISSOLVED SOLIDS SP DUP - SPIKE DUPLICATE PHC - PETROLEUM HYDROCARBONS

DUP - DUPLICATE

SP - SPIKE

DATES REFER TO WHEN BATCH WAS SHIUPPED AND WHEN SAMPLE WAS TAKEN.

^{*} INDICATES ANALYTE IS FOR INFORMATION PURPOSES ONLY

TABLE L-6 (Continued) WATER INORGANIC VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

953 35 EB 48 EB 33 I 34 I 44 I 45 I	4/20/88 4/21/88 4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	COD 7 35	FLUORIDE 0.7 0.7 3.5 0.1 0.3 0.6 0.7 0.7 0.6 3 0.1	AMMONIA 0.1		TDS 18 90	PHC 1.2 1.5 7.5 2.2 1.8 1.1	VALID VALUES NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID VALID VALID VALID VALID VALID VALID VALID VALID VALID
35 EB 48 EB 33 I 34 I 44 I 45 I 46 I 47 I 18 EB 26 I 27 I 28 I	4/21/88 4/21/88 4/21/88 4/20/88 4/21/88 4/21/88 4/21/88 4/20/88 4/20/88 4/20/88	7 35	0.7 0.7 3.5 0.1 0.3 0.6 0.7 0.7 0.6 3 0.1	0.1	1.5	18 90	1.2 1.5 7.5 2.2 1.8 1.1	VALID VALUES NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID VALID VALID VALID VALID
48 EB 33 I 34 I 44 I 45 I 46 I 47 I 18 EB 26 I 27 I 28 I	4/21/88 4/21/88 4/20/88 4/21/88 4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	35	0.7 3.5 0.1 0.3 0.6 0.7 0.7 0.6 3 0.1			90	1.5 7.5 2.2 1.8 1.1	VALID VALUES NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID VALID VALID VALID VALID
33 I 34 I 44 I 45 I 46 I 47 I 18 EB 26 I 27 I 28 I	4/21/88 4/20/88 4/21/88 4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	. 7	0.1 0.3 0.6 0.7 0.7 0.6 3 0.1	0.5	7.5		7.5 2.2 1.8 1.1	VALID VALUES NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID VALID VALID VALID VALID VALID
34 I 44 I 45 I 46 I 47 I 18 EB 26 I 27 I 28 I	4/21/88 4/20/88 4/21/88 4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	. 7	0.1 0.3 0.6 0.7 0.7 0.6 3 0.1				2.2 1.8 1.1 4.3	NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID VALID VALID VALID VALID VALID
34 I 44 I 45 I 46 I 47 I 18 EB 26 I 27 I 28 I	4/21/88 4/20/88 4/21/88 4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	. 7	0.3 0.6 0.7 0.7 0.6 3 0.1				1.8 1.1 4.3	NOT VALID NOT VALID NOT VALID NOT VALID NOT VALID VALID VALID VALID NOT VALID
45 I 46 I 47 I 18 EB 26 I 27 I 28 I	4/20/88 4/21/88 4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	. 7	0.3 0.6 0.7 0.7 0.6 3 0.1				4.3	NOT VALID NOT VALID VALID VALUES NOT VALID
46 I 47 I 18 EB 26 I 27 I 28 I	4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	. 7	0.7 0.7 0.6 3 0.1 0.1					NOT VALID VALID VALUES NOT VALID
47 I 18 EB 26 I 27 I 28 I	4/21/88 4/21/88 4/20/88 4/20/88 4/20/88 4/20/88	. 7	0.7 0.7 0.6 3 0.1 0.1					VALID VALUES NOT VALID
18 EB 26 I 27 I 28 I	4/20/88 4/20/88 4/20/88 4/20/88	7	0.7 0.6 3 0.1 0.1					VALID VALUES NOT VALID
26 I 27 I 28 I	4/20/88 4/20/88 4/20/88		3 0.1 0.1					NOT VALID
27 I 28 I	4/20/88 4/20/88	35	0.1 0.1					NOT VALID
27 I 28 I	4/20/88 4/20/88		0.1					
28 I	4/20/88							
								NOT VALID
29 1			0.3					NOT VALID
	4/20/88		0.2					NOT VALID
32 I	4/20/88		0.3					NOT VALID
37 I	4/20/88	24	0.2				•	NOT VALID
37 SP DUI	4/20/88	24	0.2					NOT VALID
38 I	4/20/88		u. /					NOT VALID
39 I	4/20/88	19	0.1					NOT VALID
40 I	4/20/88	19	0.2					NOT VALID
42 I	4/20/88		0.3					NOT VALID
43 I	4/20/88		0.1					NOT VALID
50 I	4/20/88		1.5					NOT VALID
51 I	4/20/88		0.3					NOT VALID
	4/20/88		0.2					NOT VALID
53 I	4/20/88		0.1					NOT VALID
041	/ /22 /88		· · · · · · · · · · ·					ALL VALID
	937 SP DUI 1938 I 1939 I 1940 I 1942 I 1950 I 1951 I 1952 I 1953 I	1037 SP DUP 4/20/88	24	737 SP DUP 4/20/88 24 0.2 738 I 4/20/88 0.2 739 I 4/20/88 19 0.1 740 I 4/20/88 19 0.2 742 I 4/20/88 0.3 743 I 4/20/88 0.1 750 I 4/20/88 0.1 751 I 4/20/88 0.3 752 I 4/20/88 0.2 753 I 4/20/88 0.1	737 SP DUP 4/20/88 24 0.2 738 I 4/20/88 0.2 739 I 4/20/88 19 0.1 740 I 4/20/88 19 0.2 742 I 4/20/88 0.3 743 I 4/20/88 0.1 750 I 4/20/88 0.3 751 I 4/20/88 0.3 752 I 4/20/88 0.2 753 I 4/20/88 0.1	137 SP DUP 4/20/88 24 0.2 138 I 4/20/88 0.2 139 I 4/20/88 19 0.1 140 I 4/20/88 19 0.2 142 I 4/20/88 0.3 143 I 4/20/88 0.1 150 I 4/20/88 1.5 151 I 4/20/88 0.3 152 I 4/20/88 0.2 153 I 4/20/88 0.2 154 0.1	137 SP DUP 4/20/88 24 0.2 138 I 4/20/88 19 0.1 140 I 4/20/88 19 0.2 142 I 4/20/88 0.3 143 I 4/20/88 0.1 150 I 4/20/88 0.1 151 I 4/20/88 0.3 152 I 4/20/88 0.2 153 I 4/20/88 0.1	137 SP DUP 4/20/88 24 0.2 138 I 4/20/88 19 0.1 140 I 4/20/88 19 0.2 142 I 4/20/88 0.3 143 I 4/20/88 0.1 150 I 4/20/88 0.1 151 I 4/20/88 0.3 152 I 4/20/88 0.2 153 I 4/20/88 0.1

I - INVESTIGATIVE ALK - ALKALINITY

EB - EQUIPMENT BLANK COD - CHEMICAL OXYGEN DEMAND

MB - METHOD BLANK TOC - TOTAL OXYGEN CARBON

SP MP - METHOD SPIKE TDS -- TOTAL DISSOLVED SOLIDS SP MP - METHOD SPIKE TDS -- TOTAL DISSOLVED SOLIDS SP DUP - SPIKE DUPLICATE PHC - PETROLEUM HYDROCARBONS

DUP - DUPLICATE

SP - SPIKE

DATES REFER TO WHEN BATCH WAS SHIUPPED AND WHEN SAMPLE WAS TAKEN.

^{*} INDICATES ANALYTE IS FOR INFORMATION PURPOSES ONLY

TABLE L-6 (Continued) WATER INORGANIC VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD NUMBER	RFW NUMBER	SAMPLE TYPE	•			AMALVIES	(ma / L)	VALIDITY
						ANALITES	(mg/L)	ANCIDITI
BATCH: 1301			5/11/88	ALK	COD	FLUORIDE	PHC	ALL VALID EXCEPT AS LISTED
01-503-W202			5/10/88		18	0.6	1.7	·
04-512-W202	130196	EB	5/10/88	300		0.5	1.1	
				1500	90	3	8.5	VALID VALUES
01-501-W002	130178	1	5/10/88	680		0.3	1.6	NOT VALID
01-502-W002	130179	1	5/10/88	390	60	0.2		NOT VALID
01-503-W002	130180	I	5/10/88	290		0.2	1.5	NOT VALID
01-503-W102	130181	DUP	5/10/88	310		0.2	1.3	NOT VALID
01-504-W002	130184	1	5/10/88	300	31	0.2	1.4	NOT VALID
01-504-W602		SP DUP	5/10/88	300	29	0.2	1.6	NOT VALID
01-505-W002	130187	I	5/10/88	260	32*	0.3	1.5	NOT VALID
02-507-W002	130188	I	5/10/88			1.6	1.9	NOT VALID
02-508-W002	130190	I	5/10/88			0.2	1.6	NOT VALID
02-509-W002	130191	I	5/10/88			0.1	1.3	NOT VALID
04-510-W002	130192	1	5/10/88			0.2	1.2	NOT VALID
04-511-W002	130193	1	5/10/88			0.2	1.1	NOT VALID
04-512-W002	130194	1	5/10/88			0.3	1.3	NOT VALID
04-512-W102	130195	DUP	5/10/88			0.2	1.4	NOT VALID
04-513-W002	130198	1 .	5/10/88			0.3	2.1	NOT VALID
05-514-W002	130199	i	5/10/88	480		0.1	1.5	NOT VALID
05-515-W002	130200	I	5/10/88	360		0.5	1.3*	NOT VALID
05-516-W002	130201	I	5/10/88	130	72*	0.9	1.3*	NOT VALID
05-516-W602	130203	SP DUP	5/10/88	120	64*	0.9	2.0*	NOT VALID
05-517-W002		. I	5/10/88	280	39	0.4	1.9*	NOT VALID
05-518-W002	130205	1	5/10/88	170	37	1	1.5*	NOT VALID
06-519-W002	130206	1	5/10/88	310	80	0.5	1.8*	NOT VALID
06-520-W002		I	5/10/88	210		0.3	1.9*	NOT VALID
07-521-W002	130208	I	5/10/88			0.7	1.4*	NOT VALID
07-522-W002	130209	1	5/10/88			0.8	1.6*	NOT VALID
07-523-W002	130210	I	5/10/88			0.3	2.0*	NOT VALID
07-524-W002	130211	I	5/10/88			0.3	2.0*	NOT VALID

I - INVESTIGATIVE ALK - ALKALINITY

EB - EQUIPMENT BLANK COO - CHEMICAL OXYGEN DEMAND
MB - METHOD BLANK TOC - TOTAL OXYGEN CARBON
SP MP - METHOD SPIKE TDS - TOTAL DISSOLVED SOLVED

TDS - TOTAL DISSOLVED SOLIDS

DUP - DUPLICATE

SP - SPIKE

DATES REFER TO WHEN BATCH WAS SHIUPPED AND WHEN SAMPLE WAS TAKEN.

SP MP - METHOD SPIKE

SP DUP - SPIKE DUPLICATE PHC - PETROLEUM HYDROCARBONS

^{*} INDICATES ANALYTE IS FOR INFORMATION PURPOSES ONLY

TABLE L-7 WATER CHLORIDE, PHOSPHATE, SULFATE VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

NUMBER		TYPE	DATE	CHLORIDE	ANALYTES (mg/ PHOSPHATE	SULFATE		
BATCH: 8804-00			4/6/88				ALL VALID)
BATCH: 8804-03			4/6/88				ALL VALIC)
 BATCH: 8804-05			4/9/88					EXCEPT AS LISTE
06-144-M201	8804-053-012	EB	4/21/88			22.9		
						114.5	VALID VAL	LUE
06-247-M001	8804-053-006	I	4/21/88			108	NOT VALID)
04-154-M001		I	4/21/88			46.8	NOT VALID)
04-251-M001			4/21/88				NOT VALID	
BATCH: 8804-06	9		4/10/88				ALL VALIC)
ВАТСН: 8804-09	2 2		4/12/88				ALL VALIC)
BATCH: 8804-11	3		4/13/88	•			ALL VALIC)
BATCH: 8804-18	3		4/19/88				ALL VALID)
BATCH: 8805-38	6		5/10/88				ALL VALID)
BATCH: 8806-75	9 TO 8806-761		6/20/88) .
							VALID VAL	
05-167-M221	8806-760-004	TB	6/20/88	ACTUON COLIN		12.5	VALID VAL	.UE

I - INVESTIGATIVE EB - EQUIPMENT BLANK MB - METHOD BLANK SP MP - METHOD SPIKE SP DUP - SPIKE DUPLICATE

DUP - DUPLICATE

SP - SPIKE

TABLE L-8 WATER METAL VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

NUMBER	RFW Number	SAMPLE TYPE	DATE		ANAL	YTES (mg/	L)	VALIDITY
BATCH: 127645	5-127702		4/6/88	CALCIUM	IRON	SILICON	ZINC	ALL VALID EXCEPT AS LISTED
01-124-M201	127652	EB		0.354		0.426		
02-165-M201	127696	EB		0.464	0.089	0.346		
				2.32		2.13		VALID VALUES
01-122-M001	127645	I	4/29/88				0.018	NOT VALID
01-123-M001	127646	1	4/29/88		0.066		0.015	NOT VALID
01-125-M001	127648	1	4/29/88		0.131		0.023	NOT VALID
01-156-M001	127649	I	4/29/88		0.308		0.011	NOT VALID
01-162-M001	127650	I	4/29/88		0.083		0.021	NOT VALID
01-122-M101	127651	DUP	4/29/88				0.014	NOT VALID
01-160-M001	127692	I	4/29/88		0.178		0.04	NOT VALID
02-164-M001	127693	I	4/29/88		0.149		0.021	NOT VALID
02-165-M001	127694	I	4/29/88				0.021	NOT VALID
02-165-M101	127695	I	4/29/88		0.079		0.014	NOT VALID
02-166-M001	127698	I	4/29/88				0.027	NOT VALID
03-116-M001	127699	I	4/29/88				0.013	NOT VALID .
03-116-M601	127701	SP DUP	4/29/88				0.016	NOT VALID
03-117-M001	127702	I			0.048		0.013	NOT VALID .
							• • • • • • • • • • • • • • • • • • • •	
BATCH: 127703			4///88					ALL VALID EXCEPT AS LISTED
06-144-M201	12/863	EB	4/29/88	0.337		1.16		
03-118-M001	127703		((20 (00	1.68				VALID VALUES
06-108-M001	127703	=	4/29/88		0.044		0.021	NOT VALID
06-109-M001	127805	I I	4/29/88		0.184		0.018 0.011	NOT VALID
06-110-M001	127806	_	4/29/88					NOT VALID
06-110-M601		I	4/29/88		0.235		0.011	
06-247-M001	127808		4/29/88		0.211		0.044	NOT VALID
	127809	I	4/29/88				0.011	NOT VALID
	127861		4/29/88				0.014	NOI VALID
06-144-M101 06-245-M001	127862		4/29/88					NOT VALID
100-243-9001	12/903	1	4/29/88				0.011	NOT VALID
BATCH: 128048	 -128175		4/12/88	SILICON		• • • • • • • • • • • • • • • • • • • •		ALL VALID
999MB1	LQI127958		,,	0.615 3.075				VALID VALUE

I - INVESTIGATIVE

SP DUP - SPIKE DUPLICATE DUP - DUPLICATE SP - SPIKE

EB - EQUIPMENT BLANK

MB - METHOD BLANK

TABLE L-8 (Continued) WATER METAL VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD NUMBER	RFW NUMBER	SAMPLE TYPE	DATE		ANALY	TES (mg/L)		VAL!	IDITY
3ATCH: 128520	 -128925				TRON	ZINC			ALL	VALID EXCEPT AS LISTED
08-127-M201		EB	6/01/88	0.753		0.099				
, , , , , , , , , , , , , , , , , , ,	.20522		0,01,00	3.765		0.495			VAL	ID VALUES
08-127-M001	128520	I	6/01/88	51,05		0.042				VALID
08-127-M101	128521	DUP	6/01/88			0.077				VALID
08-129-M001	128523	I	6/01/88			0.024				VALID
01-503-W201	128918	EB	4/29/88	0.354	0.055	0.011				
				1.77	0.275	0.055			VAL:	ID VALUES
01-502-W001	128915	I	4/29/88			0.046			NOT	VALID
01-503-W001	128916	I	4/29/88			0.02			NOT	VALID
01-503-W101	128917	DUP	4/29/88			0.011			NOT	VALID
01-504-WOO1	128920	1	4/29/88			0.011				VALID
01-505-W001	128921	1	4/29/88		0.045				NOT	VALID
02-508-2001	128924	I	4/29/88			0.013			NOT	VALID
BATCH: 128933			4/21/88						ALL	VALID EXCEPT AS LISTED
05-130-M201	128935	EB	5/25/88	0.421 2.105	0:026 0.13		0.404 2.02		VAL	ID VALUES
01-503-W201	128918	EΒ	4/29/88	0.354		0.055				VALID
				1.77		0.275				VALID
05-514-W001	128937	I	5/25/88							VALID
05-514-W001	128937	I	5/25/88							VALID
05-514-W001	128937	DUP	5/25/88							VALID
05-515-W001	128938	I	5/25/88							VALID
05-517-W001	128939	I	5/25/88							VALID
05-518-W001		I	5/25/88							VALID
06-519-W001	128942	I	5/25/88					0.042	NOT	VALID
BATCH: 129017	7-129061	•••••	4/21/88					•••••	ALL	VALID
BATCH: 129063			4/23/88							VALID

I - INVESTIGATIVE

SP DUP - SPIKE DUPLICATE

EB - EQUIPMENT BLANK

DUP - DUPLICATE

MB - METHOD BLANK

SP - SPIKE

TABLE L-8 (Continued) WATER METAL VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD NUMBER	RFW Number	SAMPLE TYPE	DATE		ANALY	TES (mg/L)	VALIDITY
BATCH: 13017	8-130199		5/11/88	CALCIUM	COPPER	ZINC	ALL VALID EXCEPT AS LISTED
01-503-W202	130182	EB	6/1/88	0.319		0.012	THE THEIR ENGEL I NO ELGIED
999MB1	LQC130178	MB	6/1/88		0.029	0.01	
				1.59	0.145	0.06	VALID VALUES
01-503-W002	130180	I	6/1/88		0.028		NOT VALID
01-503-W102	130181	DUP	6/1/88			0.056	NOT VALID .
01-504-W002	130184	I	6/1/88			0.014	NOT VALID -
01-504-W602	130186	DUP	6/1/88			0.016	NOT VALID
01-505-W002	130187	I	6/1/88			0.012	NOT VALID
02-507-W002	130188	I	6/1/88		0.043		NOT VALID
02-508-w002	130190	I	6/1/88			0.034	NOT VALID
02-509-W002	130191	I	6/1/88		0.028	0.013	NOT VALID
05-514-W002	130199	I	6/1/88			0.017	NOT VALID
•						• • • • • • • • • • • • • • • • • • • •	•••••
BATCH: 13020			5/11/88	CALCIUM	ZINC		ALL VALID EXCEPT AS LISTED
01-503-w202	130182	EB	6/1/88	0.319	0.012		
999MB1	LQC130178	MB	6/1/88		0.012		
				1.59	0.06		VALID VALUES
05-517-W002	130204	I	6/1/88		0.039		NOT VALID
05-518-W002	130205	I	6/1/88		0.041		NOT VALID
06-519-W002	130206	I	6/1/88		0.044		NOT VALID

I - INVESTIGATIVE

SP DUP - SPIKE DUPLICATE

EB - EQUIPMENT BLANK

DUP - DUPLICATE

MB - METHOD BLANK SP - SPIKE

TABLE L-9 WATER RESAMPLE VALIDATION IRP STAGE 2 SELFRIDGE ANGB, MI

FIELD NUMBER	RFW NUMBER	SAMPLE TYPE	DATE	ANALYTES	(mg/L)	VALIDITY
						ALL VALID EVERDT AC LICTER
BATCH: 136800-			8/03/88	PHC		ALL VALID EXCEPT AS LISTED
07-523-W222	136813		8/10/88	2.2		
	136811 136812		0.40.400	11		VALID VALUE
07-523-W022	136811	1	8/10/88	2.9		NOT VALID
			8/10/88	2.3		NOT VALID
07-523-W622		SP DUP		2.2		NOT VALID
07-524-W022	136817	I	8/10/88	1.4		NOT VALID .
05-516-W022	136831	I	8/10/88	1.8		NOT VALID .
05-517-W022	136837 136838	I	8/10/88	2.6		NOT VALID
	136838	I	8/10/88	1.9		NOT VALID
06-520-W022		1		1.9		NOT VALID
BATCH: 136991-			8/05/88	TDS	NH4	ALL VALID EXCEPT AS LISTED
08-128-M221	137002	EB	8/09/88	13		
05-105-M221	137015	EB	8/17/88		0.7	
				65	3.5	VALID VALUES
05-235-M021	137012	I	8/17/88		0.5	NOT VALID
05-105-M021	137013	i	8/17/88		1.3	NOT VALID
05-105-M121	137014	DUP			0.7	NOT VALID
01-125-M121	137114	DUP	8/17/88		0.7	NOT VALID
01-125-M621			8/17/88		0.6	NOT VALID
					0.8	
01-122-M021	137187	I	8/17/88			NOT VALID
01-257-M021	137188	I	8/17/88		0.5	NOT VALID
BATCH: 137182-	137236		8/07/88	PHC	NH4	ALL VALID EXCEPT AS LISTED
01-125-M221	137184	EB	8/17/88		0.4	
07-241-M221			8/17/88	2.2		
				11	2	VALID VALUES
01-125-M021	137182	I	8/17/88		0.6	NOT VALID
11-261-M021	137190	1	8/17/88		1.4	NOT VALID
01-123-M021	137191	I	8/17/88		1	NOT VALID
01-162-M021	137192	I	8/17/88		0.7	NOT VALID
01-263-M021	137193	I	8/17/88		0.7	NOT VALID
01-124-M021	137194	I	8/17/88		0.4	NOT VALID
07-241-M621	137236	=	8/10/88	2.1		NOT VALID
01-259-M021	137202	1	8/17/88		0.7	NOT VALID
01-158-M021	137203	Ī	8/17/88		1.7	NOT VALID
	137218		8/10/88	3.6		NOT VALID
36-519-µ022		•	5, 10,00			
	137232	Ī	8/10/88	2.2		NGI VALID
06-519-W022 07-241-M021 07-241-M121	137232 137233	I I	8/10/88 8/10/88	2.2 2.1		NOT VALID NOT VALID

I - INVESTIGATIVE SP MP - METHOD SPIKE EB - EQUIPMENT BLANK SP DUP - SPIKE DUPLICATE MB - METHOD BLANK PHC - PETROLEUM HYDROCARBONS TDS - TOTAL DISSOLVED SOLIDS NH4 - AMMONIA DUP - DUPLICATE

SP - SPIKE



APPENDIX M

DOMESTIC WELL LOGS

SEP 18 1975	WATER	WELL REC	CORD MICHIGAN DEPARTMENT
1 LOCATION OF WELL	ACT 29	94 PA 196	OF PUBLIC HEALTH
Macomb Harrison		Fraction	NE 207 2N Number Name Number
Distance And Direction from Road Intersections 145 ft. NE from center of st	rest		3 OWNER OF WELL: Joseph & Kathleen Simmons
@ 39706 Cove St. Dr			Address 39706 Cove Street Dr.
Street address & City of Well Location			Mt. Clemens
Locate with "X" in section below Sketch	Map:		4 WELL DEPTH: (completed) Date of Completion
			60 ft. 6 - 13 - 75.
 - - - -			5 Cable tool Rotary Driven Dug
┃ * ├ 			6 USE: Domestic Public Supply Industry
			Irrigation Air Conditioning Commercial
			Test Well
I WILE			7 CASING: Threaded Welded Height: Above/8000
2 FORMATION	THICKNESS	DEPTH TO BOTTOM OF	Surface 1 ft. Lin. toft, Depth Weight 11 lbs./ft.
. Only Arron	STRATUM	STRATUM	in. toft. Depth Drive Shoe? Yes No
Yellow Clay & Sand Mixed	3	3	8 SCREEN:
			Type: Stainless Sl. Dia.: 3 D Slot 'Gauze 15 Length 3ft
Gray Clay	55	58	Set between 58 ft. and 60 ft.
Gray Coarse Sand Water Bg.	2	60 .	Fittings:
			9 STATIC WATER LEVEL
·			10ft. below land surface
			10 PUMPING LEVEL below land surface ft. after hrs. pumping 1 g.p.m.
			ft. after hrs. pumping g.p.m.
			11 WATER QUALITY in Parts Per Million: Iron (Fe) Chlorides (CI)
			Childrides (CI)
			Hardness Other
			12 WELL HEAD COMPLETION: In Approved Pit TO Pitless Adapter 12" Above Grade
			13 Well Grouted? Yes No
			Neat Cement Bentonite
			Depth: Fromft. toft. 14 Nearest Source of possible contamination
·			100 feet S Direction Septic & Fd. Type
			Well disinfected upon completion X Yes No
,			Not installed Manufacturer's Name Red Jacket
			Manufacturer's Name NOO DECES. Model Number R33NO-6BC HP 2 Volts 115
			Length of Orop Pipeft. capacityG.P.M.
			Type: X Submersible
			☐ Jet ☐ Reciprocating
USE A 2NO SHEET IF REEDED 16 Remarks, elevation, source of data, etc.			
		This well	WELL CONTRACTOR'S CERTIFICATION: 1 was drilled under my jurisdiction and this report is true
ABUED INFO BY DRILLER, ITEM NO.		to the be	est of my knowledge and belief.
*CORRECTED BY **ADDITION BY		4EGIS	STERED BUSINESS NAME REGISTRATION NO.
- ELEVATION		Address	3307) Garcield Rd. Fraser
USPIH TO ROCK	:·		(B 1)

GEOLOGICAL SURVEY COPY

D67d .

100M (Rev. 12-68)

-نا				
	\	VATER V		""CINGAI DE ANTINEIT
1 LOCATION OF WELL	HARRIS	ACT 294		PARCEL 134 PUBLIC HEALTH
County	nship Name		Fraction	ISaction Number (Taus Number 10
MACOMB	CHAPTE	=	14 /	/E:SE: B 2 N/8. 14 E
Distance And Direction from Road Inte	rsections	5-M1		3 OWNER OF WELL: TOHN CONNOR
39816 5 YLU 1		, 0		Address = Old SV/U/A
378/2 3 520 //	KIT P	1 ~ 11	ralc	Address 39816 58601A
Street address & City of Well Location Locat J with "X" in section below	Sketch	Mao:	EM3.	4 WELL DEPTH: (completed) Date of Completion MIC
×				50 11. 6-27-19
ii	<u>.</u>			5 🔀 Cable tool 📗 Rotary 📗 Driven 📗 Dug
	<	.سيد		Hollow rod Jetted Bored
** - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	NOI	RIA		6 USE: Domestic Public Supply Industry
 .	DULT	r A		☐ Irrigation ☐ Air Conditioning ☐ Commercial
As a				Test Well
I MILE				7 CASING: Threaded Welded Height: Above/Below
		THICTYESS	DEPTH TO	Surfaceft.
2 FORMATION		OF STRATUM	BOTTOM OF	in. toft. Depth Drive Shoe? Yes \(\text{No} \)
To chi				8 SCREEN:
JANd		/2	12	Type: COOK Dia: 3 /N,
CLAY		25	110	Type: <u>COOK</u> Dia.: <u>3 I N.</u> Slot Length <u>44 F.T.</u>
UZAI		28	40	Set between 45 ft. and 50 ft.
HARd		کر	46	Fittings:
	_			9 STATIC WATER LEVEL
SAND XA	RAVEL	4	5-0	ft. below land surface
				10 PUMPING LEVEL below land surface
				20 ft. after 2 hrs. pumping 8 g.p.m.
WELL FINIS				
,	750			ft. after hrs. pumping g.p.m. 11 WATER QUALITY in Parts Per Million:
AT SO FT				fron (Fe) Chlorides (CI)
				HardnessOther
				12 WELL HEAD COMPLETION: In Approved Pit
				Pitless Adapter 12" Above Grade
				13 Well Grouted? ✓ Yes No Neat Cement Bentonite
				Depth: Fromft. toft.
				14 Noncore Service of annuity annuity
				60 feet Direction WEST OF WELL
				Well disinfected upon completion X Yes No
				15 PUMP: ☑ Not installed
				Manufacturer's Name
				Model Number HP Volts HP Length of Drop Pipe ft. capacity G.P.M.
•				Type: Submersible
				Jet Reciprocating
16 Remarks, elevation, source of d			17 WATER	WELL CONTRACTOR'S CERTIFICATION:
			This wel	I was drilled under my jurisdiction and this report is true
into the state of	The search of the land		to the bo	STERED BUSINESS NAME REGISTRATION NO.
A CONTRACTOR OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF THE SAME OF TH	-			
			Address	30277 CARL ST N.H.
** LY			(Warren Beld Date 6/27/69
100:10			Signed _	AUTHORIZED REPRESENTATIVE Date
D67d 100M (Rev. 12-68)				

327 23 1973		•	
	WATER	WELL RE	es 1)
1 LOCATION OF WELL County Township Name			PUBLIC HEALTH
Macomb Harriso	n	Fraction	Section Number Range Number
Distance And Direction from Road Intersections		JUE!	13 OWNER OF WELL:
35 ft. n. of center of ros	ď		Carl Johnson
@ 26655 Ashland St	•		Address 26655 Ashland St
Street address & City of Well Location Locate with "X" in Section below. Shatele	h Mao:		Mt. Clem. 48043
	Map.		4 WELL DEPTH: (completed) Date of Completion 75 ft. 9 - 11 - 73.
			5 D Carlana D 57
 			☐ Hollow rod ☐ Jetted ☐ Bored ☐
			6 USE: 🔀 Domestic 📗 Public Supply 📗 Industry
			☐ Irrigation ☐ Air Conditioning ☐ Commercial
			Test Well 7 CASING: Threaded Welded Height: Above/8234
1 MILE			Diam. Surfaceft.
2 FORMATION	TCKYESS GF	BOTTOM SF	ft. Depth Weightlbs./ft.
	STRATUM	STRATUM	in. toft. Depth Drive Shoe? Yes X No
Yellow Fine Sand	5	5	Type: Johnson S. Steel 4"
Gray Clay	2.7	1.0	SI31/0778X 18 Long th 3 ft.
dray oray	37	42	Set between 72 ft. and 75 ft.
Gray Dry Clay & Stoney	25	67	Fittings:
Gray Mixed Stones W. Brg.	8	25	9 STATIC WATER LEVEL
		75	16 ft. below land surface
Gray Clay	7	?	ft. afterhrs. pumping27_ g.p.m.
			ft. afterhrs. pumping g.p.m. 11 WATER QUALITY in Parts Per Million:
			fron (Fe) Chlorides (C1)
			Cindrides (CI)
			HardnessOther
			12 WELL HEAD COMPLETION: In Approved Pit
			7 Pitless Adapter 12" Above Grade 13 Well Grouted? Yes No
			Neat Cement Bentonite
	•		Denth: Fromft. toft.
·			14 Nearest Source of possible contamination
·			15 PUMP: Not installed
			Manufacturer's Name Red Jacket
			Model Number R33NO-6BC HP1/3oits 115
			Length of Drop Pipeft. capacityG.P.M. Type: X Submersible
			☐ Jet ☐ Reciprocating
USE A 2NO SMEET IF NEEDED			
16 Remarks, elevation, source of data, etc.		17 V. ATER W	ELL CONTRACTOR'S CERTIFICATION:
ADDED THE BY DEILLER WEM NO.		This well	was drilled under my jurisdiction and this report is true of my knowledge and belief.
ADDED THE BY			cheer Well Drilling 0163
21. 21			2200
E.E./TieN		Address _	33071 Carfield Rd. Fraser
DEPTH TO ROCK		5:an-1	Fred Fiver
067d 100M (Rev. 12-68)		_	Fred Lober

े श्रिक्त यह चहरू हो।

GEOLOGICAL SURVEY COPY

74			
1 LOCATION OF WELL	WATER ACT	WELL RE	CORD MICHIGAN DEPARTMENT OF PUBLIC HEALTH
County Township Name		£r otiya	
Distance And Direction from Road Intersections 305' 5 of N RIVER A		SE	Sedych Number Town Number Range Number 2 N/2 /# E/W
MAPWOOD RIVER I	20 4		AR. S. HOLMES Address HOJJ8 MAP WOOD
Street address & City of Wull Location SAME			MT CLEMENS, MICH
Locate with X in section below Sketo	th Mao:		4 WELL DEPTH: (completed) Date of Completion
			144 11. 7-10-7H
			5 Cable tool Rotary Driven Dug
1×			Hollow red Jetted Bored
			6 USE: Domestic Public Supply Industry Irrigation Air Conditioning Commercial
			Irrigation Air Conditioning Commercial Test Well
1 M LE			7 CASING: Threaded Welded Height: Above/Berow
	THICTNESS	DEPTH TO	Surface / ft.
2 FORMATION	GF STRATUM	BOTTOM OF	Hin. to FULL ft. Depth Weight // Ibs./ft.
			in. toft. Depth Drive Shoe? Yes No 8 SCREEN:
SANDY CLAY	12'	12'	Type: NONE USED Dia.:
PILLER DED	31		Slot/Gauze Length
RIVER BED MUDDY	<u> </u>	م-ی ر	Set betweenft. andft.
CHAY	321	47	Fittings:
HARD CLAY & STONES	16'	231	9 STATIC WATER LEVEL
HARD SAMOY CLAY	1		10 PUMPING LEVEL below land surface
HARD SANDY CLAY	28'	91'	FVH ft. after hrs. pumping g.p.m.
CLAY	10'	101'	ft. after hrs. pumping g.p.m.
BROKEN ROCK & CLAY	1	1027	11 WATER QUALITY in Parts Per Million: Iron (Fe) Chlorides (CI)
SLATE BED ROCK	H2'	IH H'	
			12 WELL HEAD COMPLETION: In Approved Pit
			Pitless Adapter 12" Above Grade
			13 Well Grouted? Yes No
			Neat Cement Bentonite
			Denth: Fromft. toft. 14 Negrest Source of possible contamination
			75 reet NE Direction SEPTIC Type
			Well disinfected upon completion Yes No
			15 PUMP: Not installed
		 	Manufacturer's Name RED VACKET Model Number R50M 9RH2 Volts 230
			Length of Drop Pipe 54 ft. capacity 6 G.P.M.
,			Type: Submersible
· .			☐ Jet ☐ Reciprocating
SE 4 250 SMEET IF NEEDED			
16 Remarks, elevation, source of data, etc.		17 WATER W	ELL CONTRACTOR'S CERTIFICATION:
ACCES TO BY CALL THEM HO.		This well to the bes	was drifted under my jurisdiction and this report is true
		R.AWI	FRAND WELL DRILLING 020 FERES BUSINESS NAME REGISTRATION NO.
EE dada			ł ·
TO ROCK		Address _	Date 7-10-24
		Signed	a freque & 7-10-24
067d 10.55 Fev. 12-58			AUTHOR ZED PERRESEN ATIVE

SEP 18 (975			WELL REG					
1 LOCATION OF WELL		ACT 25	94 PA 196	PUBLIC HEALTH "				
County Macomb	Township Name Harrison	3	Fraction	Section Number Town Number Range Number				
Distance And Direction from Road I	ntersections			NE 1/4 207 2N N/S. 14E E/W.				
85 ft. NE from				Joseph W. Simmons				
© 39706 Street address & City of Well Locat	Cove Drive.	•		Address 39706 Cove Drive				
Focuse with "X" in section held	W Sketci	h Map:		Mt. Clemens, Mich 4 WELL DEPTH: (completed) Date of Completion				
	DRY-HOL	T		129 1. 4 - 1 - 75				
	DIT-IOL	ıcı		5 Cable tool Rotary Driven Dug				
w				6 USE: Domestic Public Supply Industry				
			Irrigation Air Conditioning Commercial					
	•		Test Well					
1 WILE				7 CASING: Threaded Welded Height: Above/Below Surfaceft.				
2 FORMATION		THICKNESS OF	BOTTOM OF	4_in. to 129 ft. Depth Weight lbs./ft.				
		STRATUM	STRATUM	in. toft. Dooth Drive Shoe? Yes No 8 SCREEN:				
Yellow Clay &	Sand Mir.	3	3	Type: Dia.:				
Gray Clay		89	/ 92/	Slot/Gavze Length				
Black Slate	,	?	129	Set betweenft. andft. Fittings:				
(DRY-HOLE)				9 STATIC WATER LEVEL				
(DRI HOLL)				ft. below land surface				
				ft. afterhrs. pumping g.p.m.				
		_						
				ft. after nrs. pumping g.p.m. 11 WATER QUALITY in Parts Per Million:				
				Iron (Fe) Chlorides (CI)				
				HardnessOther				
				12 WELL HEAD COMPLETION: In Approved Pit				
•				Pitless Adapter 12" Above Grade				
				13 Well Grouted? Yes No				
				Depth: Fromft. toft.				
				14 Nearest Source of possible contaminationfeet Direction Type				
				Well disinfected upon completion Yes No				
				15 PUMP: Not installed				
				Manufacturer's Name HP Volts				
				Length of Drop Pipeft. capacityG.P.M.				
				Type: Submersible				
				Jet Reciprocating				
16 Remarks, elevation, source of			17 WATER	VELL CONTRACTOR'S CERTIFICATION:				
ביינים וליינים ביינים וליינים ביינים וליינים ביינים	Y DRILLER, ITEM NO		This well	was drilled under my jurisdiction and this report is true				
OBTOSHIO.	ВҮ	i		terec Business NAME TEREC BUSINESS NAME REGISTRATION NO.				
· ALIENTIAN I	ا 5 ر	<u> </u>						
UEFTH TO K	JCK -25	3	Address	33071 Carfield Rd. Fraser				
D474 100M (Bu) 12.60			S19 012_	Date 1975				

	ACT 294	PA 1965		MICHIGAN DEPARTMENT
1 LOCATION OF WELL			114 4 .	OF PUBLIC HEALTH
County Twp.		Fraction	Section No.	Town Range
MACOMB HARRISON Distance And Direction from Road Intersections		1/1/2	1.2 1/1	2 NX 1/1 EX
40525 MAPWOOD	WHER No		3 OWNER OF WELL: COLEMAN	E / V
HARRISON TWP			Address to Co.	FLYNN
Street address & City of Well Location			WAT -	MAPWOOD
2	THICKNESS	DEPTH TO	4 WELL DEPTH: (comple	MENS MICII, ted) Date of Completion
Z FORMATION	OF STRATUM	STRATUM	130' C' ft.	ted) Date of Completion
	1/	1 7 /	5 Coble tool	Ratary Driven Dug
CLAY	46	46	Hallow rod	Jeffed Bored
HARD CLAY & STUNES		/	6 USE: Domestic	Public Supply Industry
1111 CAA / 13/02/=3	10	561	☐ Irrigation ☐	Air Conditioning Commercial
LEAKY HARD PAN	40'	9/	7 CASING:	
		-/2	Diam. Threaded	Welded Height: Above/Below
GLACK CLAY & PIECES OF SLATE	26"	(98-6	1, # in. to 98-91."	Depth surface / ft.
	1 .		in. toft	Weight // Ibs/ft. Depth: Drive Shoe? Yes No
BLACK SLATE ROCK	32'	1306	8 SCREEN:	i j
			Type: NONE	; Dig.:
			Slot/Gouze	
				·
			Set betweenft.	andft.
			Fittings:	
			9 STATIC WATER LEVEL	
			ft. below Ion	
			10 PUMPING LEVEL below	land surface
			ft. after	hrs. pumping / f g.p.m.
			ft. after	.hrs. pumpingg.p.m.
			11 WATER QUALITY in Par	
			Iron (Fe)	
				`
			Hardness	
			12 WELL HEAD COMPLETE	
,			Pitless Adapte 13 GROUTING:	12" Above Grade
•		ľ	Well Grouted? Yes	J №
			Material: Neat Cemer	
			Depth: From	fr.
	1	.	4 SANITARY:	
	1		Nearest Source of possible	i
			Distriction of Distriction	. / / - / - / - / - / - / - / - / - / -
			Well disinfected upon com 5 PUMP:	ibletion Thues T No
			Manufacturer's Name	CO FACUET
			Model Number 22	CTHP!/-
			Length of Drop Pipe	G.P.M.
		1	Type: Sebmersible	<u> </u>
Remarks, elevation, source of data, etc.	 ,	17 WATER W	Jet	Reciprocating
	j'	This well	ELL CONTRACTOR'S CERT	FIFICATION:
•		to the bes	of my knowledge and belief	
	-	Korf	2. Figa I	-0020
		1	T C. C.	AEGISTAATION NO.
	-	Address	55 HO Tahomen	a WARPFULL
•	İ	Signed	- Them	Date 10-17-11
67D 100M 6-66		بره. *	TAGRIZED REPRESENTATIVE	

GEOLOGICAL SURVEY COPY

WATER WELL RECORD Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue Name Continue				
County Franchio Nome Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harrison Harris			WELL RE	CORD MICHIGAN DEPARTMENT
Macomb Harrison Machine Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue C	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	7012		14 19 PUBLIC HEALTH
Since Administration for center of street	Macomb Harrison	ז		Range Number
Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Sect	Distance And Direction from Road Intersections	+ 700+	•	3 OWNER OF WELL:
Street address a City of West Landson Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section May 10 The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section Below Section With The Section With The Section Below Section With The Section Below Section With The Section With The Section Below Section With Th	© 27020 N. River	Rd.	' :	Richard Zitka
Ayet. Delty Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Completed Date of Co	Street address & City of Well 1 50ft. W. of M	aplewo	od St.	Mt. Clemens 1801.2
102 n. 7-29-71				4 WELL DEPTH: (completed) Date of Completion
Scale tool Botter Dougle Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored Bored				
Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secr				Cable tool . Rotary . Driven Dog
Image Air Conditioning Commercial	 * - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			Hollow rod Jetted Bored
Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test Well Test				
THICKNESS SUPPRING Community The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The state The s				Test Well
2 FORMATION THICKNESS SEPTINTO STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM STRATUM				7 0 10 10 10 10 10 10 10 10 10 10 10 10 1
FORMATION STRATUM Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue		THICKNESS	35274.70	Surfaceft.
Yellow Clay 3 3 3 Screen: Type: Stainless Stain: 3" ID Yellow Fine Sand & Clay 7 10 Stor/CXXX 25 Length 3/t Gray Clay 33 43 Fittings: Gray Clay & Mix. Stones. 57 100 20 to below land surface Gray Clay & Mix. Stones. 57 100 20 to below land surface Gray Clay & Mix. Stones. 57 100 20 to below land surface Gray Clay ? ? to stree hrs. pumping s.p.m. Gray Clay ? ? to stree hrs. pumping s.p.m. Water Quality in Parts Per Million: In Approved Pit In Hordess Other 12" Above Grade 13 well Grouted? ves No Nest Cemant dentonite 12" Above Grade 14 Names Source of possible contamnation 52 (set N. Direction San Sewor Type Well disinfected upon combising Not installed Manufacturer's Name Model Number Not installed Manufacturer's Name Model Number Reciprocating Water A 2No Smett if Netters Jet Reciprocating Water Well Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the Seat of the	2 FORMATION	OF	BOTTOM OF	
Yellow Fine Sand & Clay 7 10 Gray Clay 33 43 Gray Clay & Mix. Stones. 57 100 Gray Coaese Sand W. Brg. 2 102 Gray Clay & Mix. Stones. 57 100 Gray Clay & Mix. Stones. 57 100 Gray Clay & Mix. Stones. 57 100 Gray Coaese Sand W. Brg. 2 102 It pumping Level below land surface It after _hrs. pumping _ q.p.m. Gray Clay ?	V-33 03		-	8 SCREEN:
Yellow Fine Sand & Clay 7 10 Slov GAM 25 Length 3ft Set batween 10@, and 102 ft.	iellow Clay	3	3	Type: Stainless Sta. 3" TD
Set battween 10(R, and 102 ft. Fittings: Gray Clay & Mix. Stones. 57 100 9 STATIC WATER LEVEL 20 ft. below land surface 20 ft. after hrs. pumping 1 g.p.m. 10 PUMPING LEVEL below land surface 10 PUMPING LEVEL below land surface 11 PUMPING LEVEL below land surface 11 ft. after hrs. pumping 1 g.p.m. 11 WATER QUALITY in Parts Per Mullion: Iron (Fe) Chlorides (Cl) Hardness Other 12 WELL HEAD COMPLETION: In Approved Pit Pittless Adapter 12" Above Grade 13 Well Grouted Ves No Nest Cerem Bentonite 10 Pumping Level below land surface 12 Well Head COMPLETION: In Approved Pit Pittless Adapter 12" Above Grade 13 Well Grouted Ves No Nest Cerem Bentonite 10 Pumping Level below land surface 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Above Grade 15" Abov	Yellow Fine Sand & Clay	7.	10	Slot/GANX 25 Length 3ft
Gray Clay & Mix. Stones. 57 100 9 STATIC WATER LEVEL 20 11. below land surface 20 10 PUMPING LEVEL below land surface 10 PUMPING LEVEL below land surface 10 PUMPING LEVEL below land surface 10 PUMPING LEVEL below land surface 11 PUMPING LEVEL below land surface 12. store 13. below land surface 14. store 15. hrs. pumping 2. p.p.m. 11. water Quality in Parts Per Million: 17. in Approved Pix 12. water 12. well well below land surface 13. well Grouted? 13. well Grouted? 12. water 12. water Grade 13. well Grouted? 12. water 12. water Grade 13. well Grouted? 12. water 12. water Grade 14. water 12. water 12. water 12. water Grade 14. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. water 12. w		1	10	Set between 100k. and 102ft.
Gray Clay & Mix. Stones. 57 100 Gray Coaese Sand W. Brg. 2 102 Ti. below land surface Ti. after hrs. pumping 1 0.p.m. Gray Clay ? It. after hrs. pumping 1 0.p.m. It water Quality in Parts Per Million: If on [Fe] Chlorides (Cl) Hardness Other 12 Well Head Completion: In Approved Pit Pritess Adapter 12' Above Grade 13 Well Grouted? yes No Sent Cement Bentonite Destit Fin. 14 Nearest Source of possible contamination Set of the Well distincted upon completion San Sewar Type Well distincted upon completion Type Not installed Manufacturer's Name Model Number HP Volts Length of Drop Pipe ti. capacity G.P.M. Type: Submersible Reciprocating 16 Remarks, elevation, source of data, etc. 17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.	Gray Clay	33	43	Fittings:
Gray Coaese Sand W. Brg. 2 102 102 103 103 103 104 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 103 10	Gray Clay & Win Change	~~		9 STATIC WATER LEVEL .
Gray Clay 7 7 11 WATER QUALITY in Parts Per Million: Iron (Fe)	dray cray & mix. Stones.	57	100	20ft. below land surface
Gray Clay ? ? 11 WATER QUALITY in Parts Per Million: Iron (Fe)	Gray Coaese Sand W. Brg.	2	102	i i
11 WATER QUALITY in Parts Per Million: Iron (Fe)				Tt. arterhrs. pumping g.p.m.
Iron (Fe)	Gray Clay	?		ft. after hrs. pumping g.p.m.
HardnessOther				
12 WELL HEAD COMPLETION: In Approved Pit				Iron (Fe) Chlorides (CI)
12 WELL HEAD COMPLETION: In Approved Pit				HardnessOther
Pittess Adapter 12" Above Grade	·			12 WELL HEAD COMPLETION: In Approved Pit
Neat Cement Bentonite				Pitless Adapter 7 12" Above Grade
Deoth: Fromft. toft. 14 Nearest Source of possible contamination				
14 Nearest Source of possible contamination 15 feet N Direction San Sewer Type				Depth: Fromft. to ft
Well disinfected upon completion				14 Nearest Source of possible contamination
15 PUMP: Not installed				Well disinfected upon San Sewar Type
Manufacturer's Name Model Number				15 0
Model Number				
Length of Drop Pipeft. capacityG.P.M. Type: Submersible		ļ	7	Model Number HP Volts
Jet Reciprocating 16 Remarks, elevation, source of data, etc. 17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. SCHOOL WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.				Length of Drop Pipeft. capacityG.P.M.
16 Remarks, elevation, source of data, etc. 17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. SCHOOL WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.			į	
16 Remarks, elevation, source of data, etc. 17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. SCHOOL WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. REVISION BUSINESS NAME REVISION NO.				☐ Reciprocating
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. School Wallings NAME REGISTERED BUSINESS NAME REGISTERATION NO.			17 9/4750 ::	TILL CONTO
REGISTERS BUSINESS NAME 11119 CHESS NAME 11119 CHESS NAME 11119 CHESS NAME 1119		This well	was drilled under my jurisdiction and this second in a	
REGISTERED BUSINESS NAME	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		to the bea	t or my knowledge and belief.
Address 33071 Garfield Rd. Fraser Signed AUTHORITED REPRESENTATIVE (F) Date 1974			- 1863	PERED BUSINESS HAME 1 1 10 G. HEGISTRATION NO.
Do7d 100M (Rev. 12-68) Signed AUTHORITED REPRESENTATIVE (F) Date 1974			Address _	-33071 Carfield Rd. Fo.
Dord 100M (Rev. 12-68) Date AUTHORIZED REPRESENTATIVE (F)	·•		e \	Con 1/1
	D67d 100M (Rev. 12-68)		2.00.50	Date 1974

GEOLOGICAL SURVEY COPY

JUN 19 1972

		WATER ACT 2	WELL RE	CORD		MICHIGAN DEPA	ARTMENT		
1 LOCATION OF WELL	Township Name (14)	AC1 2	52-2	SW SW		OF PUBLIC HEA			
County	Fraction Section Number Town No. Str. SW . SE 1/4 31 2N								
Macomb	Harrison	ンルハハハ	Si	SW ST V	31		Range Number		
Distance And Direction from Road	intersections			3 OWNER OF		2N N/S.	THE E/W.		
168 ft N. of center	of road 0 254	75 Rosse	Hyy.		Ray She				
		_	•	Address '	•	Rosse Buy.	,		
Street address & City of Well Loca	tion			1	Mt. Cle	mane iny.			
Locate with "X" in section bei	ow Sketci	п Мар:		4 WELL DEPTH					
				4 WELL DEPTH: (completed) Date of Completion 28 ft. 3 - 27 - 72					
I					11.				
				5 X Cable tool Rotary Driven Dug					
▋				6 USE: Domestic Public Supply Industry					
							industry		
				Test		Conditioning [Commercial		
X! F	losso Hy.			7 CASING: Th	weil The ware	Height: Abo			
1 MILE				Djam.	Weider	Height: Abo	ve/8 t-5A		
2 FORMATIO	v	THICKNESS OF	OF HT435	25,	25	Surface	17 tt.		
	•	STRATUM	STRATUM	in. to	ft. Dept	h Drive Shoe?	ibs./ft.		
		_		8 SCREEN:	T. Dept	Orive Shoe?	Yes No		
Gray Clay		18	18	Stai	nless Stee	1 _{Dia.:} 3'	•		
G 36 . 41				Slov/777	15				
Gray med. D	and, Water Brg.	10	<u>2</u> 8	Set between	25_ft. and _	_ Length	<u> </u>		
G				Fittings:	It. and	<u> 20</u> ft.	•		
Gray Clay &	Mixed Stones	7							
				9 STATIC WATE	R LEVEL				
					t. below land sur	face			
				10 PUMPING LE	VEL below land s	urface			
				1	t. afterhrs. p	umping	6 g.p.m.		
					t. after hrs. p	umping	g.p.m.		
				11 WATER QUAL	LITY in Parts Per	Million:			
				Iron (Fe) Chlorides (CI)					
							İ		
				Hardness					
			′		۲.	In Approved Pit			
				13 Well Course	ess Adapter 4	12" Above Grad	de		
				Near Car	ment Bentonii]		
					ft. to				
		ŀ	·	14 Nearest Source	e of possible co	ntamination			
						Septic &	T. Fd.		
				Well disinfec	ted upon completi	on 🗷 Yes 🗌 No	VDe		
				15 PUMP:		t installed			
ALLIER, ITEM NIL				Manufacturer'		c mstalled	1		
· · · · ·						HP Voits			
112 21 117						Capacity G.P			
TICH De		T		Type: 🗌 Su		G,F	•1711		
Tion cos				□ 1•		Reciprocating	ł		
	-				ب	- yer producting			
16 Remarks, elevation, source of							ļ		
Sinding, dievation, Source of	uata, etc.	1	7 WATER W	ELL CONTRAC	TOR'S CERTIFIC	ATION:			
	to the bes	was drilled unde t of my knowledg	r my jurisdiction je and belief.	and this report is	true				
To be used for laws	springling.			ERED BUSINESS N		0469 RELISTRATI			
	_					REGISTRATI	10H NO.		
			Address _	33071 Car	field Ra.	Frag	ar		
			1	1351	1				
D. 7			Signed (/1// c	LUC	Date 9	277		



APPENDIX N

HISTOGRAMS OF ANALYSES FOR SOIL SAMPLES

TABLE N-1
SORTED METAL SCREEN SOIL SAMPLE ANALYTICAL DATA
IRP STAGE 2
SELFRIDGE ANGB, MICHIGAN

AVG - Average of detected concentrations.
STD - Standard deviation of detected concentrations.
VAR - Variance of detected concentrations.
Listed values and sample sites used to create associated histograms.

TABLE N-1 (Continued) SORTED METAL SCREEN SOIL SAMPLE ANALYTICAL DATA IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

CALCIUM	CADMIUM ·	COBALT	CHROMIUM	COPPER
Sample mg/kg		Sample mg/kg	Sample mg/kg	Sample mg/kg
Sample mg/kg 3 4198001 948 2 4238101 2400 2 4238001 2570 2 4248001 3190 2 4228001 3300 5 4218001 5240 3 4188001 8950 5 4018001 9000 5 4028001 10800 8 4268001 11900 5 4038001 19200 8 4278001 20300 1 3578001 21600 3 4208002 24200	Sample mg/kg 5 403B101 5 404B002 3 418B001 8 425B003 3 418B101 5 421B002 2 424B001 5 401B001 5 401B001 5 406B002 5 402B002 8 427B002	Sample mg/kg 3 4198001 1 357M001 5 4028003 5 4018003 8 4278001 5 4178003 4 .1 5 4048003 8 4258001 5 4058003 5 4208001 5 4058003 5 4208001 5 4058003 5 4208001 5 4058003 5 4218003 5 5 4038001 5 4038001 6 .2 5 4058002 5 4038001 6 .2 5 4038001 7 .2 8 4238001 7 .31 5 4038001 7 .31 5 4038101 7 .2 8 4268001 7 .31 5 4038101 7 .31 5 4038101 7 .31 5 4048002 1 .3 5 4048002 1 .3 5 4048002 1 .3 5 4048002 1 .1 5 4168102 1 .1 5 4168102 1 .1 5 4268001 3 4208002 1 .1 5 4168002 1 .1 5 4168002 1 .1 5 4168002 1 .1 6 4268003 1 .2 6 4268003 1 .2 7 4168002 1 .1 8 4268003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 8 4278003 1 .2 9 4278003 1 .2 9 4278003 1 .3 8 4278003 1 .3 8 4278003 1 .3 8 4278003 1 .3 8 4278003 1 .3 8 4278003 1 .3 8 4278003 1 .3 8 4278003 1 .3 8 4278003 1 .3 9 4188003 1 .3 9 4188003 1 .3 9 4188003 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188002 1 .3 9 4188002 1 .3 9 4188001 1 .3 9 4188002 1 .3 9 4188002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428002 2 428	Sample mg/kg 5 4028003 5.47 8 4278001 5.68 1 357M001 6.06 5 4178003 7.9 5 4018003 8.2 5 4058003 8.3 5 4048003 8.42 5 4218003 8.6 8 4258001 9.3 5 4168003 9.5 5 4058002 10.4 5 4058103 11.6 5 4038101 13.9 2 4238001 15.3 8 4268001 15.3 8 4268001 15.5 2 4248001 16.8 5 4038001 15.3 8 4268001 15.3 8 4268001 15.3 8 4268001 15.3 8 4268002 18.7 8 4278002 17.4 3 4198003 17.6 8 4258002 18.7 2 4248001 18.6 3 4188001 18.7 8 4268002 18.7 2 4248001 18.7 8 4268002 18.9 2 4238002 18.9 2 4248001 19.3 3 4188101 19.9 5 4168102 20.8 5 4048001 20.9 5 4048001 20.9 5 4048001 20.9 5 4048001 20.9 5 4048002 22.1 5 4218001 20.9 5 4048002 22.3 3 4188001 20.9 5 4048002 22.3 3 4188001 20.9 5 4048002 22.3 3 4188001 20.9 5 4048002 22.3 3 428003 22.4 8 4258003 22.4 8 4258003 22.4 8 4258003 22.4 8 4258003 22.4 8 4258003 22.4 8 4258003 22.4 8 4258003 22.3 3 4188001 23.9 5 4048001 23.9 5 4048001 23.9 5 4048001 23.9 5 4048001 23.9 5 4048001 23.9 5 4048001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9 5 4058001 23.9	Sample mg/kg 8 4278001 3.7 3 4198001 4.43 2 4238001 5 5 4058003 6.9 8 4258001 6.9 8 4258001 6.9 5 4058003 7.7 5 4168003 7.7 5 4168003 7.7 5 4168003 7.7 5 4168003 8.8 1 357M001 10.7 5 4038001 12.3 8 4268001 12.3 8 4268001 12.3 8 4268001 12.3 8 4278002 17.8 5 4038001 17.6 8 4258003 17.7 5 4168002 17.8 5 4038001 17.9 5 4178002 18.1 3 4188001 17.9 5 4178002 18.1 3 4188001 18.5 5 4038001 18.6 8 4278002 17.8 5 4038001 19.7 5 4038001 19.7 5 4168002 17.8 5 4048001 19.7 5 4178002 18.1 3 4188001 19.5 5 4038001 19.5 5 4038001 19.5 5 4048001 19.7 6 34774001 19.9 5 4178002 20.3 8 4268003 20.6 6 34574001 19.7 6 34774001 19.9 5 4178002 20.3 8 4268003 20.6 5 4068001 20.7 3 4188002 20.5 8 4268003 20.6 5 4178001 20.7 3 4188002 20.5 8 4268003 20.6 5 4178001 20.7 3 4188002 20.7 3 4288002 21.6 5 4018001 21.2 5 4028002 21.6 5 4018001 22.5 5 4038002 21.6 5 4018001 22.5 5 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8 8 4288003 22.8
40993.51	2.254545	10.69140	18.17951	17.00854
21515.71	5.352602	3.686242	6.365576	7.322138
4.6E+08	28.65035	13.58838	40.52056	53.61371

^{4.6}E+08 28.65035 13.58838 40.5205

AVG - Average of detected concentrations.

STD - Standard deviation of detected concentrations.

VAR - Variance of detected concentrations.

Listed values and sample sites used to create associated histograms.

TABLE N-1 (Continued) SORTED METAL SCREEN SOIL SAMPLE ANALYTICAL DATA IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

IRON	MERCURY	POTASSIUM	MAGNESIUM	MANGANESE
Sample mg/kg	Sample mg/kg	Sample mg/kg	Sample mg/kg	Sample mg/kg
3 4198001 3650 8 4278001 3800 1 357M001 5350 5 4028003 8880 5 4018003 9950 8 4258001 9430 5 4048003 9970 5 4058003 10400 5 4178003 10700 5 4058103 11600 5 4168003 11600 5 4168003 11700 5 4058002 12400 2 4238001 12600 5 4038003 13800 5 403801 13000 5 403801 13000 5 403801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 2 422801 15700 3 418801 21000 3 418801 21100 2 424802 2300 5 4168102 22800 2 424803 22500 3 419803 22500 5 416802 23100 5 403802 23200 5 4048002 23100 5 404802 23300 5 404802 23300 5 404802 23300 5 404802 23300 5 404802 23300 5 404802 23400 3 428803 23400 8 426803 23400 8 426803 23400 8 426803 23400 8 426803 23400 5 403802 24100 1 361M001 24200 5 4218002 24400 3 420802 24100 1 3648001 25500 8 4278003 25400 1 359M001 25500 2 422803 24900 6 345M001 25500 6 345M001 25500 6 3478001 26500 5 4078001 26600 5 4078001 26500 5 258001 8 4258002 8 4258003 8 4268001 8 4268002 8 4268003 8 4278001 8 4278002 8 4278003	2 423B101 5 401B003 1 357M001 8 425B001 8 426B001 5 417B003 5 402B003 2 423B001 5 403B101 5 404B003 5 401B001 3 419B001 3 419B001 2 424B001 5 405B103 3 418B001 5 405B103 1100 2 422B001 5 405B103 1110 2 422B001 5 405B003 1110 2 422B001 5 405B003 1170 5 405B003 1170 5 405B003 1170 5 405B002 1210 5 403B001 5 403B001 5 403B001 5 403B001 5 403B001 5 403B001 5 403B001 5 403B001 5 403B001 5 403B002 1500 8 425B002 1740 3 418B101 1750 8 426B002 1740 3 418B101 1750 8 426B002 2 422B002 2 422B002 2 422B002 2 422B002 2 422B002 2 424B003 3 419B003 3 419B003 3 419B003 3 419B003 3 419B003 3 4260 3 416B001 3 4260 3 418B003 3 427B003 3 427B003 3 427B003 3 426B003 3 418B003 3 427B003 3 418B003 3 427B003 3 418B003 3 427B003 3 418B003 3 421B002 3 421B003 3 3310 3 420B003 3 3310 3 420B003 3 3410 5 401B002 3 423B003 3 4350 3 4360 4360 437M001 4790 2413.770	3 4198001 709 2 4238001 2490 2 4248001 2870 2 4238101 2980 2 4228001 3320 8 4258001 3590 5 4018001 3720 5 4028001 4710 8 4268001 4740 1 357M001 5230 5 4218001 5470 5 4038001 6610 3 4208001 6640 3 4188001 7560 8 4278003 9740 5 4048001 9920 8 4258003 11300 8 4258003 11300 8 4258003 11500 5 4058001 11500 5 4078001 12600 5 4078001 12600 5 4078001 12600 5 4078001 12600 5 4078001 12600 5 4078001 12600 5 4078001 12600 5 4078001 12600 5 4078001 12600 5 4078002 12700 2 4248003 13700 2 4248003 13700 2 4248003 13700 2 4248003 13700 2 4248003 13700 2 4248002 13500 3 4198003 13700 2 4228003 14000 3 4208002 14000 1 363M001 14000 3 4208003 14000 6 347M001 14400 3 4188003 15500 8 4258002 14900 5 4168002 15500 8 4258002 14900 5 4168003 15500 8 4278002 15500 8 4278002 15500 8 4278002 15500 8 4278002 15500 8 4278002 15500 8 4278002 15500 3 4198003 15000 5 4168001 16200 5 4168001 16200 5 4168001 16200 5 4168001 16200 5 4168003 19200 5 4058003 19200 5 4058003 19200 5 4058003 2500 5 4058003 2500 5 4058003 2500 5 4058003 2500 5 4058003 2500 5 4058003 2500 5 4058003 2500 5 4058003 2500 5 4058003 2500 5 4058003 2500	3 4198001 28.9 8 4278001 82.8 1 357M001 92.2 5 4018001 142 2 4238101 148 8 4258001 151 2 4238001 171 5 4028001 200 5 4018003 216 5 4018003 233 5 4178003 238 5 4218001 241 5 4048003 247 5 4168003 247 5 4168003 247 5 4168003 261 5 4218003 261 5 4218003 261 5 4218003 261 5 4218003 361 5 4218001 314 8 4278003 384 5 4038001 313 8 4188001 314 8 4278003 362 8 4268001 336 3 4188001 349 5 4028002 352 2 4248003 362 8 4268003 363 5 4168102 372 5 4038101 386 2 4218002 372 5 4038101 386 2 4228003 426 8 4258003 426 8 4258003 426 8 4258003 426 8 4258003 426 8 4258003 426 8 4258003 426 8 4258003 426 9 4168001 405 9 4168001 405 9 4168002 412 9 4228003 436 9 4178002 447 6 345M001 449 3 4178002 447 6 345M001 476 8 4258002 449 3 4188003 430 8 4258002 447 6 345M001 476 8 4258002 447 8 4258002 447 8 4258002 447 8 4258002 447 8 4258002 447	
6735.513	••••	943.1692	5732.124	235.9217
45367146		889568.3	32857251	55659.07

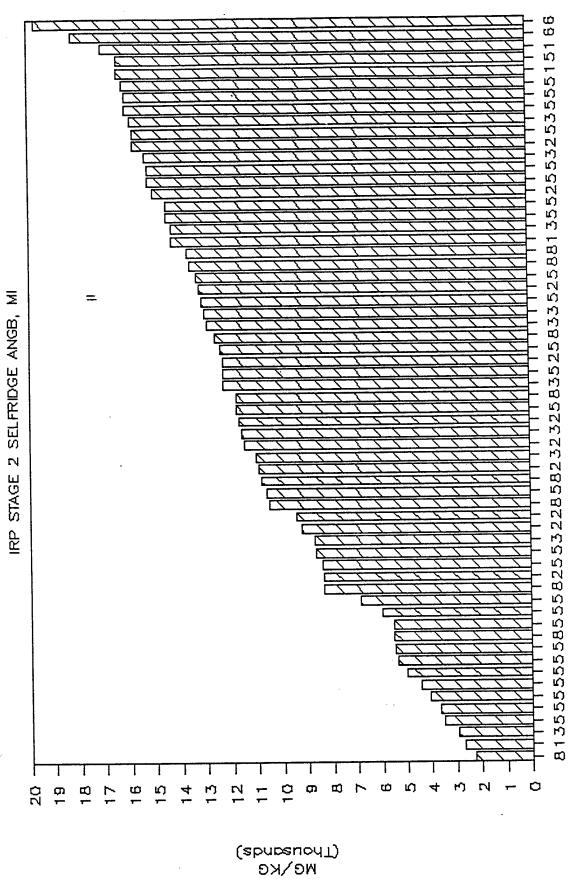
AVG - Average of detected concentrations.
STD - Standard deviation of detected concentrations.
VAR - Variance of detected concentrations.
Listed values and sample sites used to create associated histograms.

TABLE N-1 (Continued) SORTED METAL SCREEN SOIL SAMPLE ANALYTICAL DATA IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

SODIUM	N	ICKEL	L	EAD	SI	LICON	V.	ANAD I UM	2	INC
Sample mg/k	g Sample	mg/kg	Sample	mg/kg	Sample	mg/kg	Sample	mg/kg	Sample	mg/kg
1 357M001	3 419B001		8 4258001		6 347M001 5 417B001		8 427B001	6.59 7	1 357M001	
5 4018001	8 4278001	5.6 6.45 8.8	8 4258002		5 417B001	34.5 38.7	3 419B001	7	3 4198001	10.
3 4198001	1 357M001	6.45	8 4258003		3 418B003	38.7	1 357M001	7.35	8 4278001	12.4 23.9
5 403B101 90	.8 5 402B003	8.8	8 426B001		5 417B002	41.2	5 4018003	8.6	5 4058003	23.9
5 403B001 93	5 5 4018003	9	8 426B002		6 345M001	41.3	5 4028003	8 68	8 4258001	24.
5 403B101 90 5 403B001 93 3 420B001 1	27 8 425B001	αź	8 4268003		5 416B003	44.9	5 4178003	10.00	5 4030001	
5 4028001 14	5 405B003	9.2 10.1	8 427B001		3 4208003	62.6	5 41/8003	10.9	5 402B003 5 405B103	27
5 4028003	45 5 405B005	10.1	9 /270001			62.0	5 404B003	10.9	E /170007	27.
5 4028003 14 5 4048001 11	48 5 404B003	10.4	8 427B002		1 359M001	64.6 70.4	5 405B003 5 405B103	7.35 8.6 8.68 10.9 11.2 12.2 13.3 14.2 14.5 15.4 18.9	5 417B003 5 404B003	27. 27. 28
3 4188001 16	50 5 417B003	10.0	8 427B003		5 416B002	70.4	5 4058105	12.2	5 4048003	20.0
3 4188001 16	54 5 405B103 71 5 421B003	11.4	1 357M001		3 4188002	79.4	5 416B003 5 421B003	13.3	5 4168003 5 4058002 5 4018003	29.
3 4208002 17	71 5 4218003	12.3	1 359M001		5 417B003	84.3	5 4218003	14.2	5 4058002	30.4 33.4
5 4048003 17	71 5 4058002	12.7	1 361M001		1 357M001	86.6	5 4058002	14.5	5 4018003	33.
3 418B101 1	71 5 416B003	12.7	1 363M001		3 419B002	89.8	5 403B003	15.4	5 4038003 5 4218003 2 4238001 8 4268001 2 4238101	35.2
5 4018003 18	33 2 423B001	13.9	2 422B001		3 420B002	97.4	3 4208001	17.5	5 4218003	36.5
5 417B003 19	75 3 4208001 15 5 4038003	14	2 4228002		5 421B001	102	2 4238001	18.2	2 423B001	36.5 42.7
3 419B002 2	15 5 403B003	16	2 422B003		5 404B002	104	5 4038001	18.9	8 426B001	43
5 403B003 24	2 423B101 50 5 403B001 59 2 422B001	16.8	2 423B001		2 423B101	111	5 403B101	19.1	2 423B101	44.
5 405B003 25	0 5 403B001	17.1	2 423B101		5 4058103	123	5 403B002	20.7	5 401B001	46.
5 4178001 2	9 2 4228001	17.9	2 4238002		3 418B101	124	8 4268001	22 1	5 401B001 2 424B001	48.3
5 4058103 2	8 4268001	18 6	2 4238003		5 405B003	12/	5 4048002	22.5	3 4188001	51.7
6 347M001 2	58 8 4268001 70 5 4038101	18.8	2 4248001			124 127	2 4248002	19.1 20.7 22.1 22.5 22.5	5 4108001	57.
5 4028002 2	76 2 4248001	10.0	2 4248002		5 401B002 5 402B001	127	9 /270002	22.3	2 /220001	48.3 51.7 53.
5 4028002 23 5 4048002 23	79 3 4188001	26 /	2 4248002			171	8 427B002	22.0	E /070101	56.0
5 4058002 28	79 3 4188001	10.4 10.6 112.7 12.7 12.7 13.9 16.8 17.1 17.9 18.8 19.3 26.4 28.1	2 424B003		5 402B002	131	8 4258002	22.6 22.7 22.8	3 4188001 5 4028001 2 4228001 5 4038101	20.0
5 /070002 20	36 8 425B002	20.1	3 418B001		1 363M001	134	8 426B002	22.0	8 427B003	56.6
5 4038002 29	93 8 427B002	28.1	3 418B101		8 426B003	140	3 419B003	22.9	5 4168102	56.8
3 4198003 29	8 4268002	29.2	3 4188002		8 426B002	150	8 425B003 2 424B001	23.2	5 421B001	58.
5 4038002 29 3 4198003 29 6 345M001 30 5 4058001 3	06 3 420B002 18 1 359M001	30	3 418B003		5 405B002	154	2 4248001	23.4	8 4268002	58.4
5 4058001 3	18 1 359MUU1	30.8	3 419B001		8 427B001	165	2 4248003	22.9 23.2 23.4 23.7	5 416B102 5 421B001 8 426B002 8 425B002	58.8
5 401B002 3	9 5 4168002	31.2	3 4198002		5 404B003	169	2 4228001	24.1	/ G/GRUU/	59.4 59.5
5 4168001 33 5 4168003 33	5 416B102	31.5	3 419B003		5 4168102	183	5 416B002	24.1 24.5 25.4 25.7 25.8 26.4 26.4 26.5	1 361M001 8 427B002	59.5
5 4168003 33	5 4218001	31.5	3 4208001		2 4248001	190	8 4268003	25.4	8 427B002	59.9
3 4188002 34 3 4208003 38 3 4188003 43	7 2 4248002	31.8	3 420B002		5 4018003	194	2 423B101	25.4	5 404B002 5 416B002	59.9 59.9
3 4208003 38	31 2 422B002	32.9	3 420B003		2 4248003	194	3 418B001	25.7	5 416B002	59.9
3 4188003 4	10 3 418B101 23 8 425B003	32.9	5 401B001		2 4238002	195	5 4168102	25.8	3 4208002	60.3 60.7
5 417B002 42	23 8 4258003	33.7	5 4018002		8 4278003	199	3 4188003	26.4	3 4208001	60.7
5 4178002 42 1 363M001 45 1 359M001 46 1 361M001 47	3 4188003 5 5 4218002	34	5 4018003		2 423B001	202	3 4208003	26.4	5 4048001	60.9
1 359M001 46	55 5 421B002	34	5 402B001		8 427B002	204	2 4228002	26.5	8 4258003	62.4
1 361M001 47	71 2 4238002	34.1	5 4028002		3 4208001	205	2 4238002	26.6 26.9 27.3	2 424B003	63.4
5 416B102 73	3 418B002	34.4	5 4028003		2 4228003	215	5 417R002	26.9	3 4188002	63.4
8 4278001 75	3 418B002 2 424B003	34.4	5 4038001	82.2	5 402B003	215 223	3 419B002	27.3	3 418B002 5 421B002	63.6 63.7
5 4168002 78	64 6 345M001	34.7	5 4038002		5 4218003	225	3 4188002	27.4	5 402R002	63.7
8 4268001 92	24 5 417B002	35.1	5 4038003		5 4218002	228 228 242 244	5 4048001	27.8 27.9 28.3 28.5	5 4178002 3 4188101 8 4268003 1 363M001	64
2 4248001 98	24 5 417B002 36 2 423B003	35.1	5 4048001		8 4268001	228	2 4228003	27.9	3 4188101	64.9
8 4258001 99	0 8 426B003	35.4	5 404B002		2 4238003	242	5 401B002	28.3	8 426B003	64.7
2 4238001 105	0 2 4228003	35.5	5 404B003		3 4198001	244	3 420B002	28.5	1 363M001	. 64.7
8 4268002 106	5 4048002	35.5	5 4058001		8 4258001	268	5 4218002	28.6	3 4188003	65.3
8 4268002 100 2 4238101 100	70 8 427B003	28.1 29.3 30.2 30.2 31.5 31.5 31.5 32.9 34.4 34.7 355.5 355.8 355.8 355.8 355.8 357.8 37.8	5 405B002		3 418B001	268 278	5 4058001	28 9	5 417B001	65.3
8 425B002 108	3 4198002	35 8	5 4058003		5 405B001	283	3 4188101	28.9 29.2 29.2 29.3	3 4198002	65.3
2 422B001 111	10 5 404R001	35.0	5 405B103			28/	5 4028002	20.5	3 420002	65.3 65.5
5 4218003 124	5 404B001 5 401B002	36.7	5 403B103	22.5	5 416B001 2 422B001	284 299	1 361M001	20.2	3 420B003 5 405B001	65.6
5 4218003 124 2 4228002 126 5 4218001 126	30 1 361M001	37 1	5 416B001	دد. ع	8 \280001	700 777	5 4218001	20.4	5 4010001	65.0 65.4
5 4218001 126	50 1 36 MUU 1 50 5 4168001	37.1	J 4108001		8 4258002	300 312	2 421BUUI	29.6 29.7	5 401B002	65.6 65.7 66.2
5 4218002 133	0 E (020002	37.0	5 4168002		2 4248002	312	2 423B003	47.1 70.2	6 347M001	03.4
			5 4168102		8 4258003	320	8 427B003	30.2	5 4038002	00.4
8 427B002 134		38.1	5 416B003		5 4038003	340	5 416B001	31.3	6 345M001	66.3
2 4248002 139		38.1	5 417B001		5 4038101	383	1 359M001	31.9	2 4238002	67.3
8 4268003 144	0 5 405B001	38.7	5 4178002		2 422B002	417	5 4178001	32.6	2 4238003	68.1_
2 4238002 144		39.5	5 417B003		1 361M001	477	6 345M001	32.6 33.1 33.6	2 4228003	68.1 68.2
8 4278003 172		40.3	5 421B001		5 4048001	484	1 363M001	33.6	3 419B003	69.3 69.8
8 4258003 183		40.5	5 421B002		3 419B003	495	6 347M001	34.7	2 4228002	69.8
2 4248003 190		41.8	5 4218003		5 4038002	601	5 4028001	40.5	5 416B001	74.9
2 4238003 205		337	6 347M001		5 401B001	625	8 4258001	41.1	1 359M001	78.3
2 4228003 215	50 1 363M001	382	6 345M001		5 4038001	730	5 401B001	42.1	5 403B001	95.6
680.937		7.77459		52.35		4.5524		3.71161		4.34262
565.312		0.35527			14	8.8925		274023	1	6.77199
319578.	.1 30	642.759			22	168.98	68	3.45946	2	81.2998

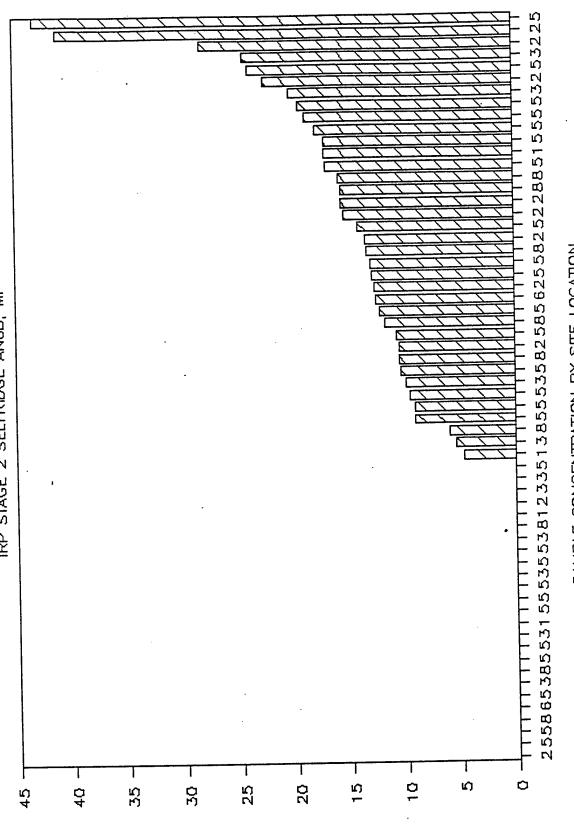
AVG - Average of detected concentrations.
STD - Standard deviation of detected concentrations.
VAR - Variance of detected concentrations.
Listed values and sample sites used to create associated histograms.

ALUMINUM CONCENTRATION IN SOII



SAMPLE CONCENTRATION BY SITE LOCATION



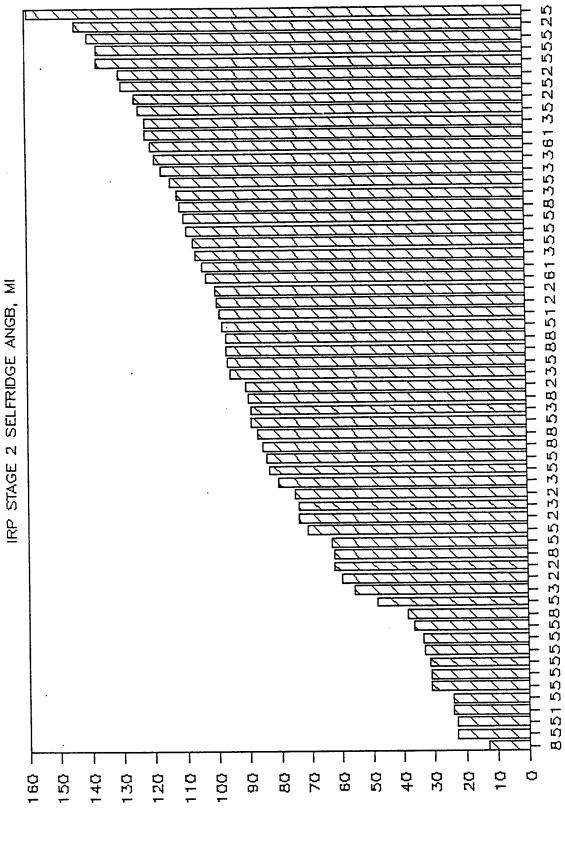


MG/KG

N-6

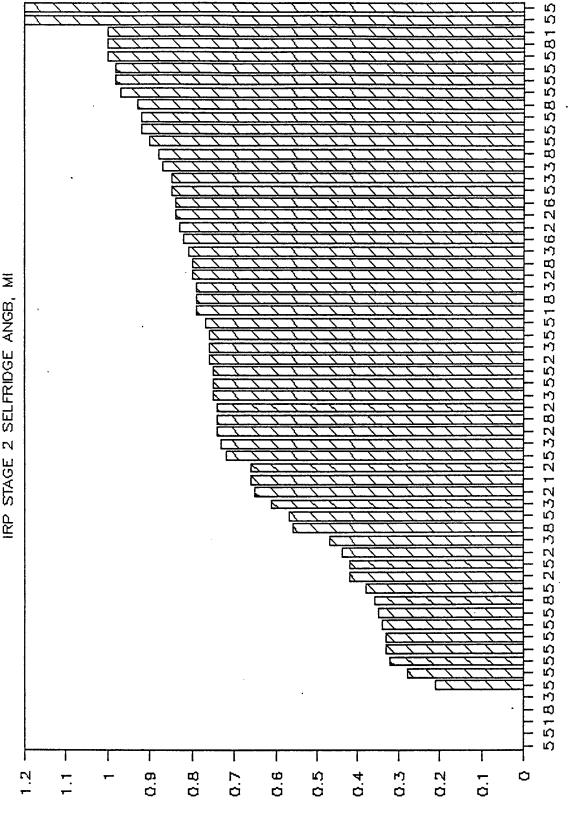
SAMPLE CONCENTRATION BY SITE LOCATION

BARIUM CONCENTRATION IN SOIL

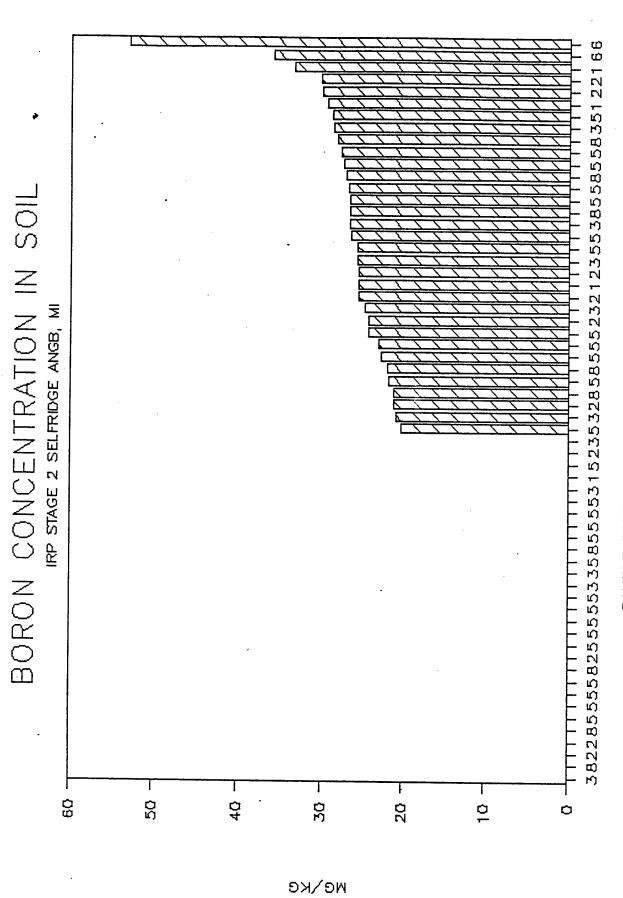


SAMPLE CONCENTRATION BY SITE LOCATION





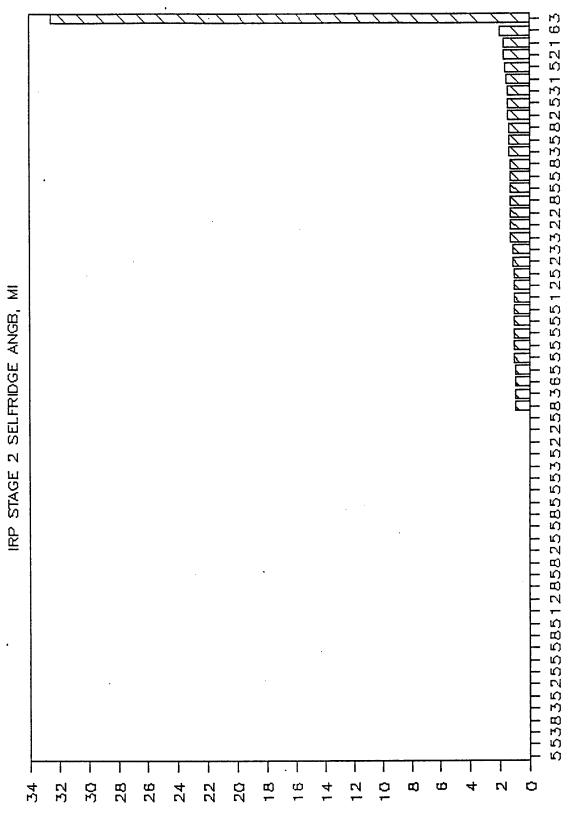
SAMPLE CONCENTRATION BY SITE LOCATION



N-9

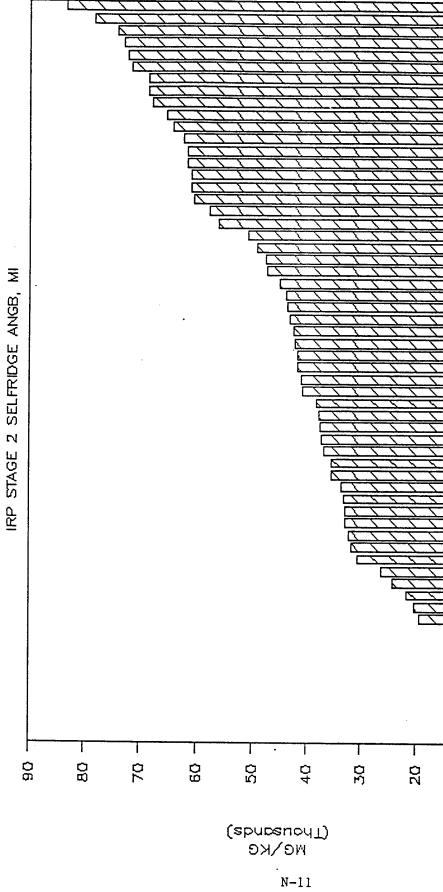
SAMPLE CONCENTRATION BY SITE LOCATION

CADMIUM CONCENTRATION IN SOIL



SAMPLE CONCENTRATION BY SITE LOCATION

CALCIUM CONCENTRATION IN SOIL IRP STAGE 2 SELFRIDGE ANGB, MI



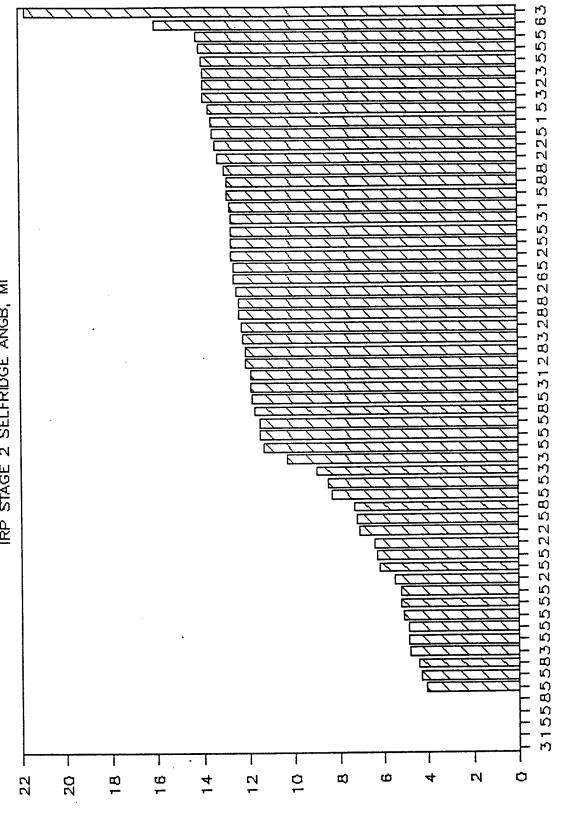
SAMPLE CONCENTRATION BY SITE LOCATION

322225355858133288318315865235682552855535152855555555555555555

Ö

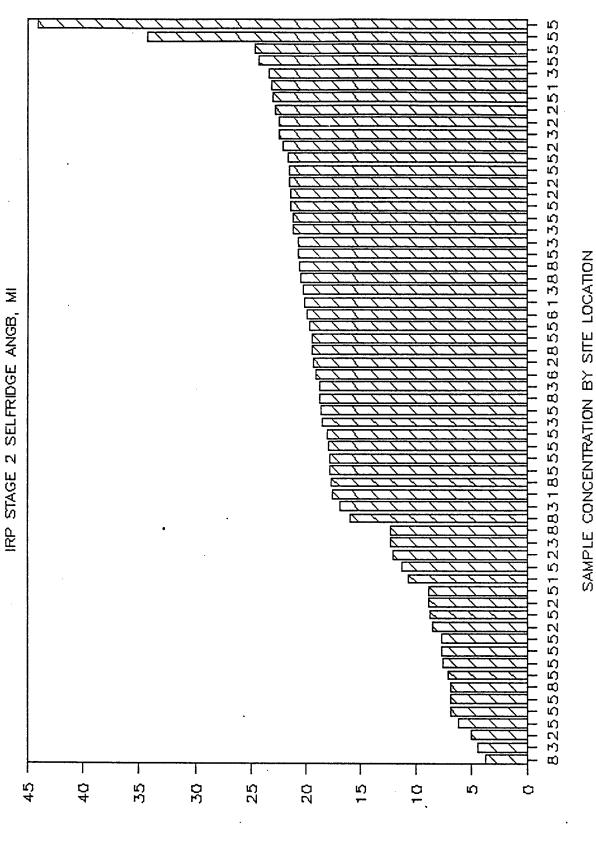
9





SAMPLE CONCENTRATION BY SITE LOCATION

COPPER CONCENTRATION IN SOIL

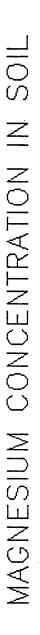


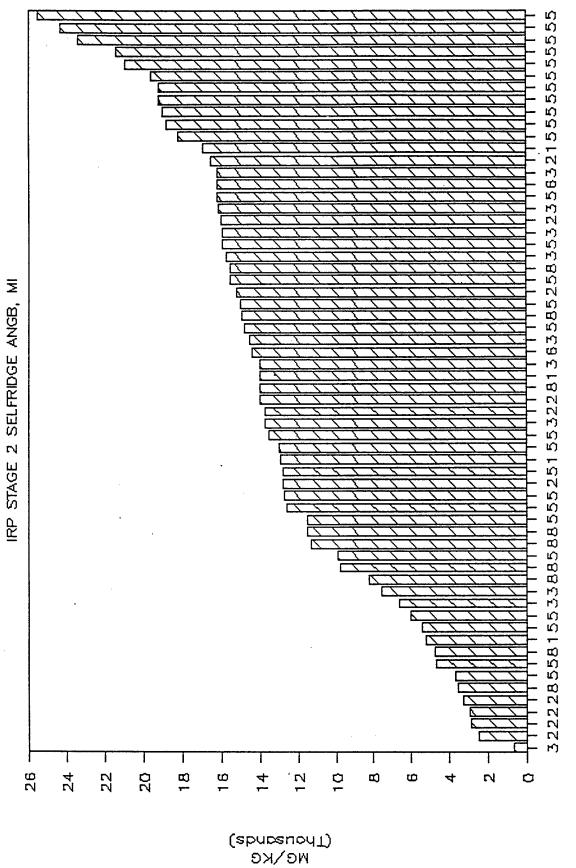
MG/KG

N-13

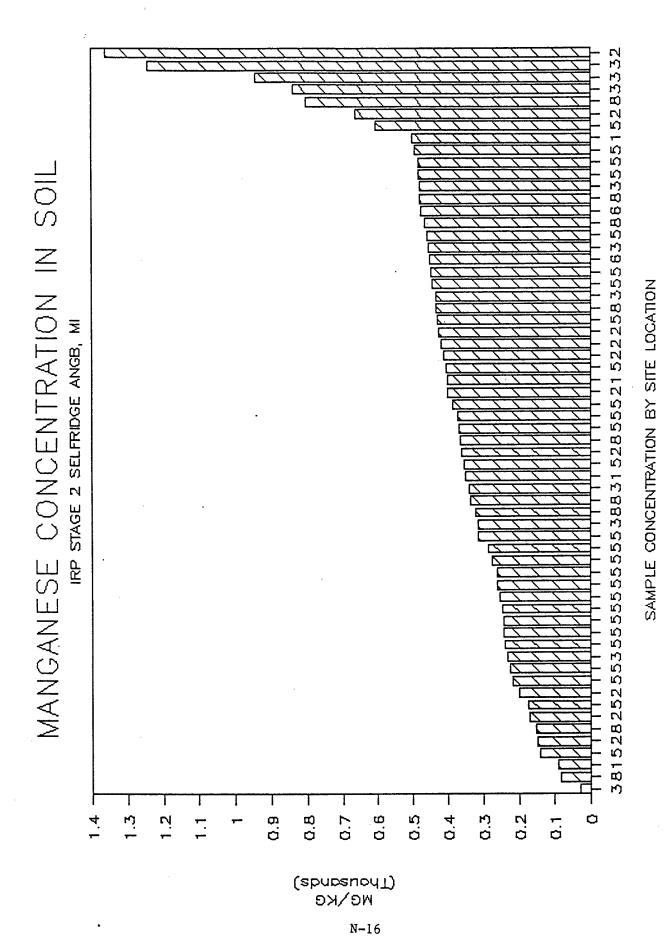
3815585555555555525528285832235255588853315323682153556515552 IRON CONCENTRATION IN SOIL IRP STAGE 2 SELFRIDGE ANGB, MI O N 9 Ġ 4 12 Ø 4 20 18 9 24 22 28 26 (Iponaduqs) WG\KG

SAMPLE CONCENTRATION BY SITE LOCATION

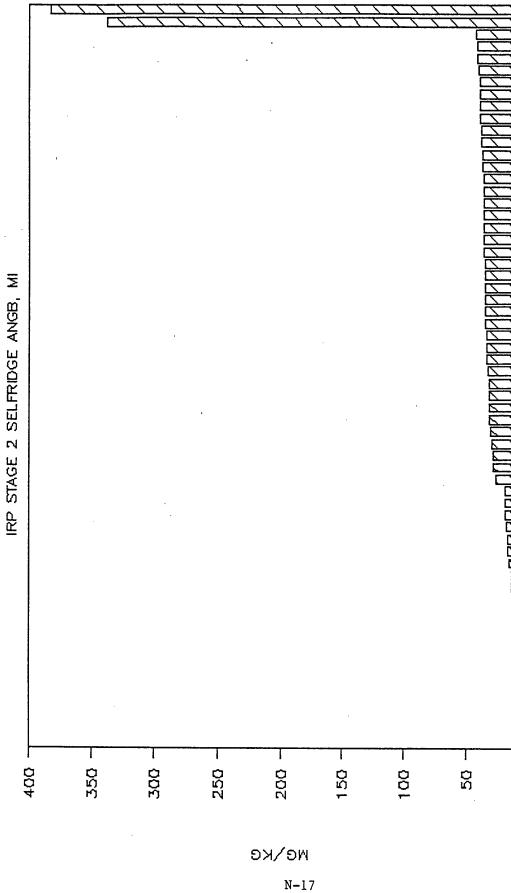




SAMPLE CONCENTRATION BY SITE LOCATION



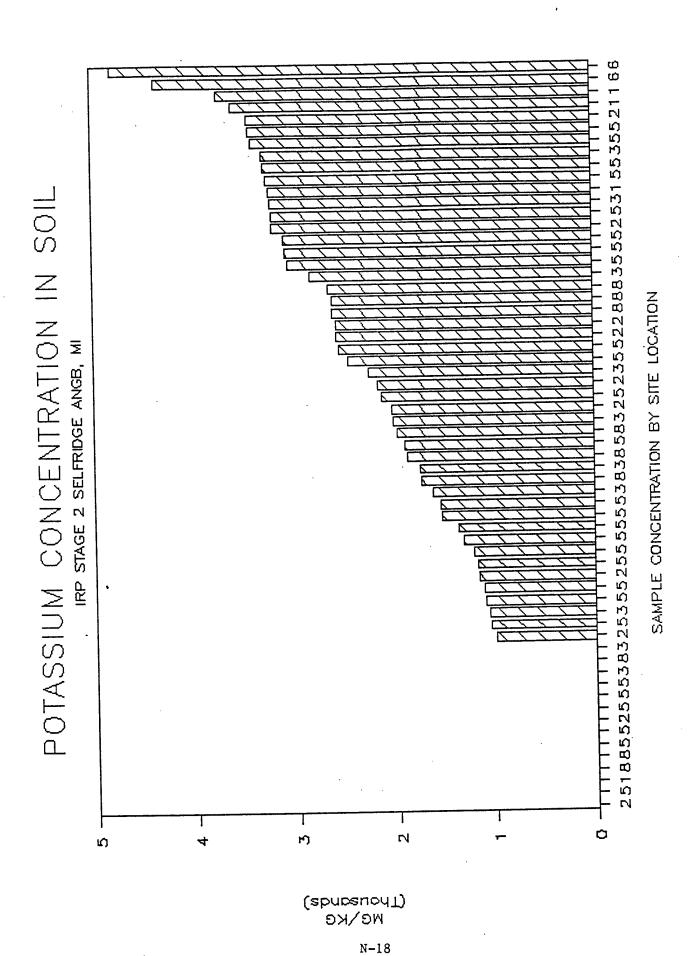
NICKEL CONCENTRATION IN SOIL



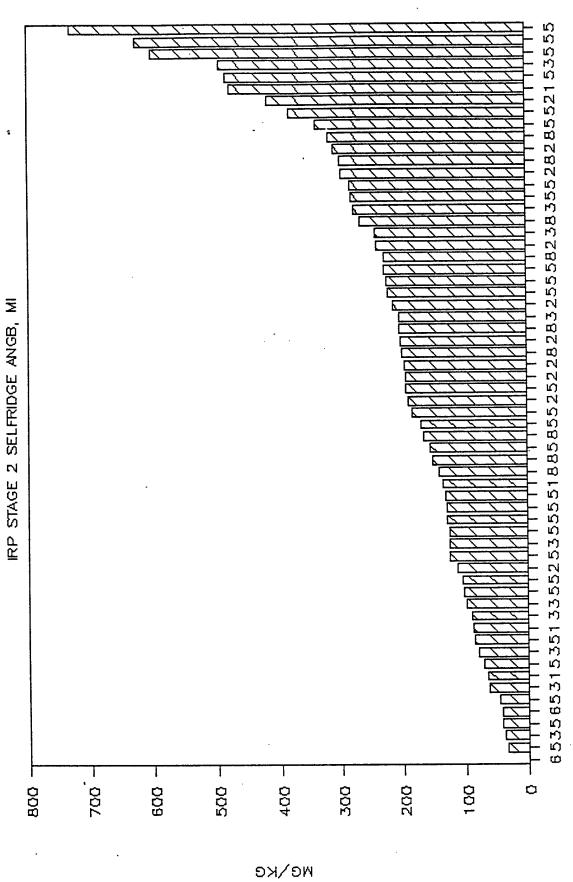
SAMPLE CONCENTRATION BY SITE LOCATION

381558555555552352352388315552338352326528258355155555555631

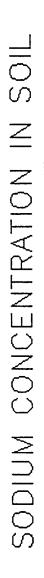
Ö

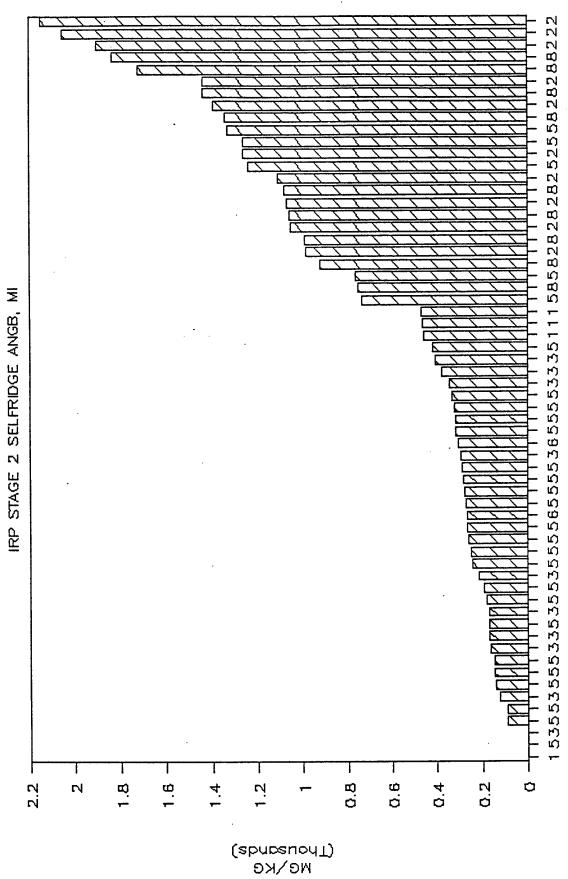


SILICON CONCENTRATION IN SOIL



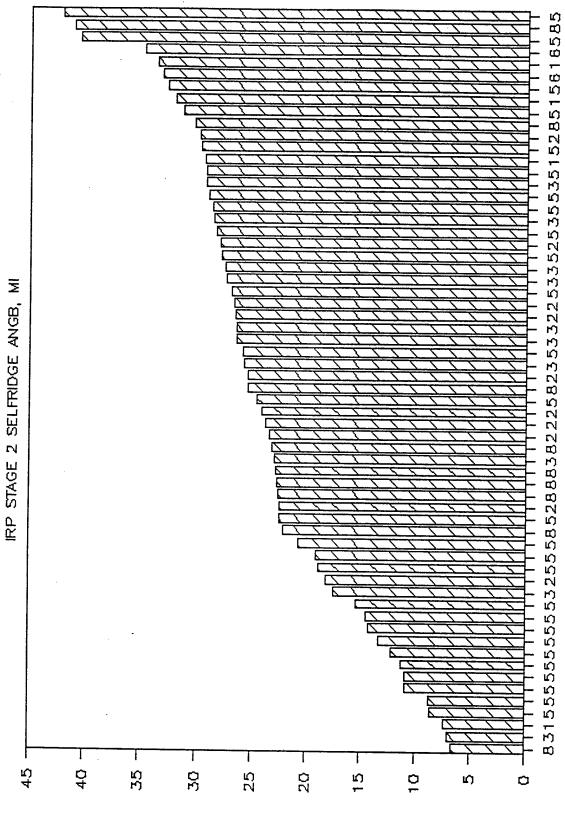
N-19





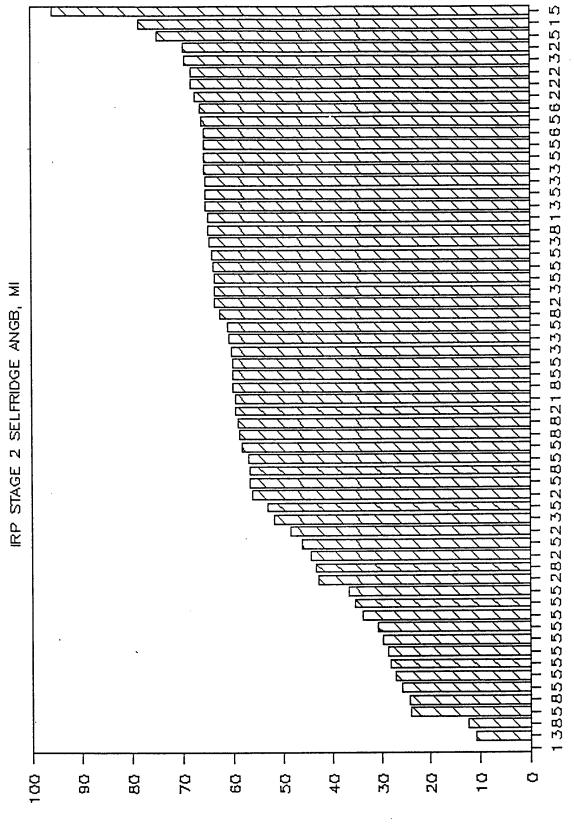
SAMPLE CONCENTRATION BY SITE LOCATION

VANADIUM CONCENTRATION IN SOII



SAMPLE CONCENTRATION BY SITE LOCATION

ZINC CONCENTRATION: IN SOIL IRP STAGE 2 SELFRIDGE ANGB, MI



SAMPLE CONCENTRATION BY SITE LOCATION



APPENDIX 0

HISTOGRAMS OF ANALYSES FOR GROUNDWATER AND SURFACE WATER SAMPLES

TABLE O-1 SORTED GROUNDWATER SAMPLE ANALYTICAL DATA IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

Chlor	ide	Sul fa	 te	Alk		TDS		PET H	YD
Chlor Sample	mg/l	Sample	mg/l	Sample	mg/l	Sample	mg/l	Sample	mg/l
1 158 M001 6 144 M001 6 144 M001 6 146 M001 6 148 M001 3 118 M001 3 118 M001 5 130 M101 5 130 M101 5 130 M001 4 154 M001 7 142 M021 6 109 M001 7 104 M001 4 150 M001 6 110 M001 1 122 M001 7 138 M001 4 113 M001 7 140 M021 7 138 M001 7 140 M021 7 138 M001 7 140 M021 7 136 M001 7 140 M021 7 137 M021 7 138 M001 7 140 M021 7 138 M001 7 140 M021 7 136 M001 7 140 M021 7 136 M001 1 122 M001 1 122 M001 1 123 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 126 M001 1 127 M001 2 166 M001 1 128 M001 1 129 M001 1 129 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 121 M001 1 122 M001 1 123 M001 1 124 M001 1 125 M001 1 125 M001 1 126 M001 1 127 M001 1 128 M001 1 129 M001 1 129 M001 1 129 M001 1 129 M001	1.74 6.1 7.18 10.96 17.89 10.168 17.89 10.168 17.89 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10.99 10	7 237 M021 7 136 M101 8 129 M001 7 243 M001 7 244 M001 7 243 M001 7 244 M001 7 243 M001 5 233 M001 5 233 M001 5 233 M001 5 235 M001 4 255 M001 4 255 M001 4 251 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 158 M001 1 159 M001 1 150 M001 1 150 M001 1 150 M001 1 150 M001 1 150 M001 1 150 M001 1 150 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001	2.7964278113.5256.58.0 2.7964278113.5256.558.0 13.5222 366.558.0 3366.558.0 6623366.688.0 762.6995111561157711439161165516552095317149116151655209531714911615165520953171491161516552095317149116151655209531714911615165520953171491161516552095317149116151655209531714911615165520953171491161516552095317149116151655209531714911615165520953171491161516552095317149116151616161616161616161616161616161616	5 235 M001 7 241 M001 4 113 M001 5 105 M001 1 156 M001 1 156 M001 1 156 M001 1 263 M001 1 263 M001 1 265 M001 1 265 M001 1 267 M001 1 267 M001 1 269 M001 1 269 M001 1 269 M001 1 269 M001 1 269 M001 1 269 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001 1 160 M001	100 130 180 180 180 180 180 190 210 210 210 220 230 240 250 240 250 240 250 240 250 240 250 260 270 260 270 270 270 270 270 270 270 270 270 27	7 241 M021 7 239 M001 4 113 M001 4 113 M001 6 146 M001 7 102 M021 1 160 M001 4 155 M001 4 155 M001 3 117 M001 3 118 M001 4 152 M001 7 1243 M021 7 1243 M021 6 144 M001 7 140 M021 6 144 M001 7 144 M001 7 144 M001 7 148 M001 7 149 M001 7 138 M001 7 138 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 126 M001 1 127 M001 1 128 M001 1 129 M001 1 120 M001 1 120 M001 1 121 M001 1 122 M001 1 123 M001 1 124 M001 1 125 M001 1 126 M001 1 127 M001 1 128 M001 1 129 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 121 M001 1 122 M001 1 123 M001 1 124 M001 1 125 M001 1 126 M001 1 127 M001 1 128 M001 1 129 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001 1 120 M001	350 380 380 380 440 550 560 5580 5600 640 640 640 640 640 640 640 640 640	1 122 M001 1 122 M001 1 123 M001 1 124 M001 1 125 M001 1 156 M001 1 156 M001 1 156 M001 1 156 M001 1 160 M001 1 162 M001 1 257 M001 1 257 M001 1 259 M001 1 263 M001 2 166 M001 3 118 M001 4 113 M001 4 115 M001 4 115 M001 4 155 M001 4 155 M001 4 253 M001 5 134 M001 5 167 M021 5 235 M001 6 144 M001 6 146 M001 6 146 M001 6 146 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 140 M001 7 136 M001 7 136 M001 7 136 M001 7 136 M001 7 136 M001 7 136 M001 7 137 M001 7 138 M001 7 138 M001 7 138 M001 7 136 M001 7 136 M001 7 137 M001 7 138 M001 7 138 M001 7 138 M001 7 138 M001 7 138 M001	1.1 1.3 1.4 1.4 1.6 1.8 2 2 2.1 2.1 4.3
STD VAR	939.9356 883479.0	STD VAR	152.5679 23276.96		713.0721 508471.8		2183.310 4766842.	VAR	0.853697 0.7288

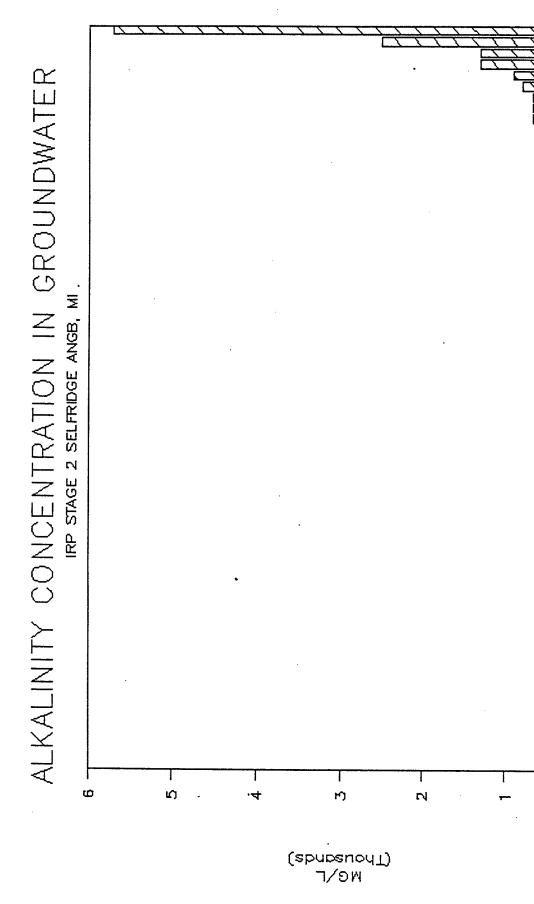
AVG - Average of detected concentrations. STD - Standard deviation of detected concentrations. VAR - Variance of detected concentrations. Listed values and sample sites used to create associated histograms

. TABLE 0-1 (Continued) SORTED GROUNDWATER SAMPLE ANALYTICAL DATA IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

COD Sample	mg/l	Ammonia Sample	mg/l	TOC Sample	mg/l	BARIUM Sample	mg/l	ZINC Sample	mg/l
1 160 M021 6 146 M001 5 235 M001 1 257 M001 1 125 M121 5 167 M001 1 1263 M001 1 122 M021 5 105 M001 5 134 M001 5 132 M001 6 247 M021 6 144 M001 5 130 M001 6 144 M001 5 130 M001 6 144 M001 5 130 M001 6 144 M001 5 130 M001 6 144 M001 1 1261 M021 1 125 M021 1 126 M021 1 127 M021 6 109 M021 6 109 M021 6 109 M021 6 110 M021 1 128 M021 1 128 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021 1 129 M021	18 23 29 30 31 31 35 55 56 57 64 57 64 69 74 69 330 380 480 700 700	6 108 M001 1 124 M021 1 1257 M001 5 132 M001 5 135 M021 5 167 M001 6 146 M001 6 110 M001 1 125 M021 5 130 M101 1 1259 M001 1 1259 M001 1 1259 M001 1 1259 M001 1 125 M021 1 1263 M001 1 122 M021 5 134 M001 5 135 M001 1 122 M021 5 136 M001 1 128 M021 5 137 M001 6 144 M001 6 144 M001 6 144 M001 6 109 M001 1 156 M021 1 156 M021 1 156 M021	0.34 0.55 0.55 0.66 0.77 0.77 0.77 0.77 0.77 0.77 0.77	1 160 M001 6 110 M001 6 247 M001 5 235 M001 5 167 M001 1 123 M001 1 123 M001 5 231 M001 5 231 M001 5 107 M001 1 162 M001 1 162 M001 1 162 M001 1 122 M101 5 134 M001 1 122 M001 1 125 M001 1 1261 M001 1 1261 M001 1 127 M001 1 128 M001 1 129 M001 1 129 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001 1 125 M001	2.7 3.6 4.6 4.6 4.6 4.6 4.6 7.1 2.7 8.8 9.1 10 10 10 10 10 10 10 10 10 10 10 10 10	1 263 M001 3 118 M001 6 108 M001 6 109 M001 6 110 M001 6 144 M001 6 144 M001 6 145 M001 3 117 M001 1 122 M101 1 162 M001 1 162 M001 1 162 M001 1 122 M101 1 162 M001 1 123 M001 1 123 M001 1 124 M001 1 125 M001 1 125 M001 1 126 M001 1 127 M101 1 128 M001 1 127 M001 1 128 M001 1 128 M001 1 129 M001 1 125 M001 1 126 M001 1 127 M001 1 128 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001 1 126 M001	0.052 0.058 0.068 0.068 0.102 0.111 0.117 0.127 0.129 0.134 0.149 0.169 0.174 0.196 0.293 0.249 0.293 0.249 0.293 0.249 0.315 0.413 0.421 0.528 0.421 0.528 0.629 0.716 0.765 0.882 0.929	1 125 M001 1 156 M001 1 158 M001 1 158 M001 1 162 M001 1 257 M001 1 261 M001 1 263 M001 5 167 M001 5 167 M001 5 167 M001 6 108 M001 6 109 M001 6 110 M001 6 144 M001 6 144 M001 6 144 M001 6 145 M001 1 122 M101 2 165 M001 1 123 M001 1 122 M001 1 123 M001 1 124 M001 5 130 M001 1 127 M001 2 165 M001 1 128 M001 1 129 M001 5 130 M001 1 120 M001 1 121 M001 1 122 M001 1 123 M001 1 124 M001 1 126 M001 1 127 M001 2 166 M001 3 127 M001 8 127 M001 8 127 M001 8 127 M001 8 127 M001 8 127 M001 8 128 M001	0.011 0.013 0.013 0.014 0.015 0.015 0.018 0.021 0.021 0.023 0.024 0.025 0.027 0.04 0.042 0.053 0.077 0.096 0.105

AVG STD VAR	401.3333 1269.415 1611414.	AVG STD VAR	1.578125 2.164303 4.684208	AVG STD VAR	109.9387 395.1738 156162.3	0.107076 0.241990 0.058559	0.031347 0.026124 0.000682

AVG - Average of detected concentrations.
STD - Standard deviation of detected concentrations.
VAR - Variance of detected concentrations.
Listed values and sample sites used to create associated histograms

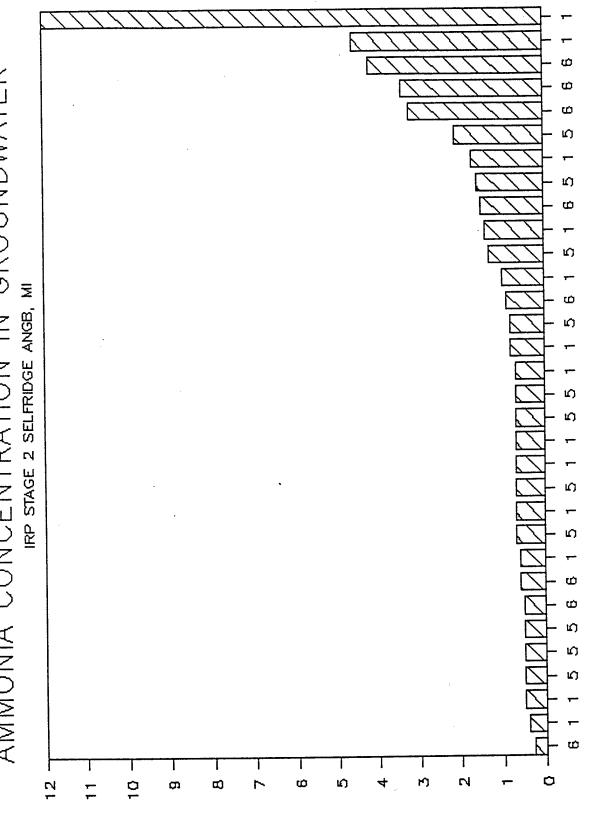


SAMPLE CONCENTRATION BY SITE LOCATION

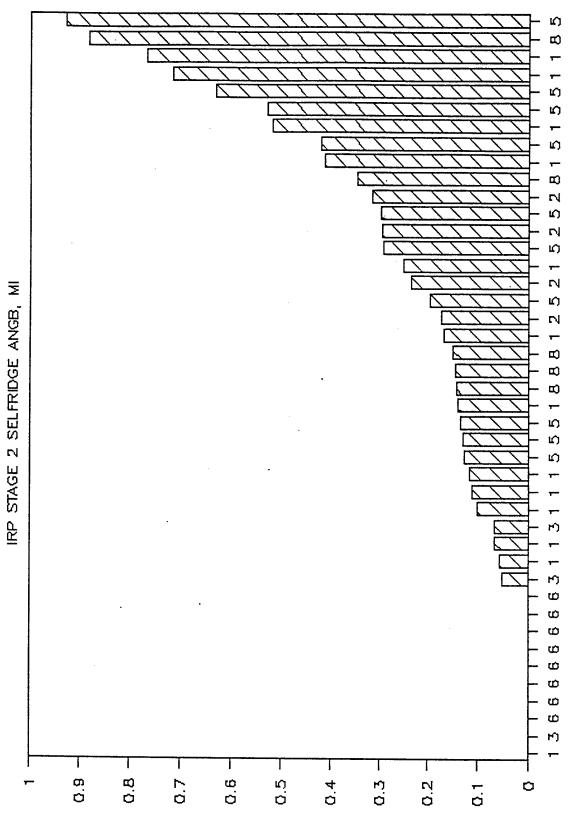
57445145147641418114757187865477866646157578224644333577546212511117

Ö

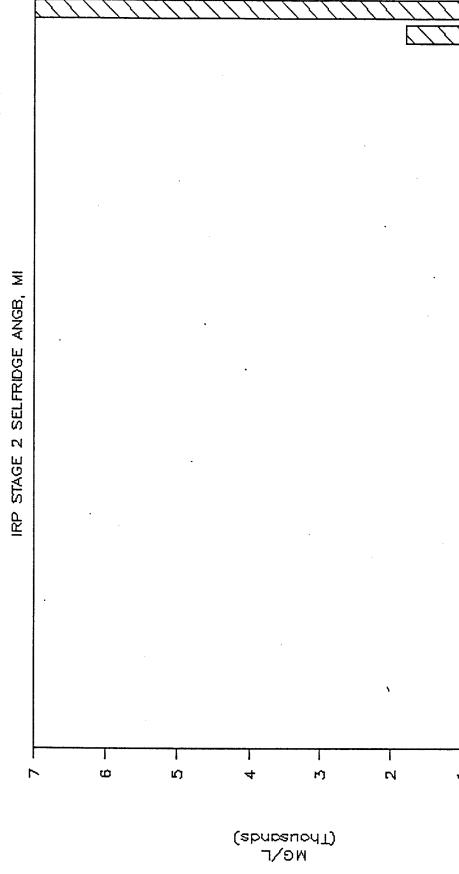




BARIUM CONCENTRATION IN GROUNDWATER IN STAGE 2 SELFRIDGE ANGB, MI



COD CONCENTRATION IN GROUNDWATER



SAMPLE CONCENTRATION BY SITE LOCATION

ψ

ထ

Ú

5 5

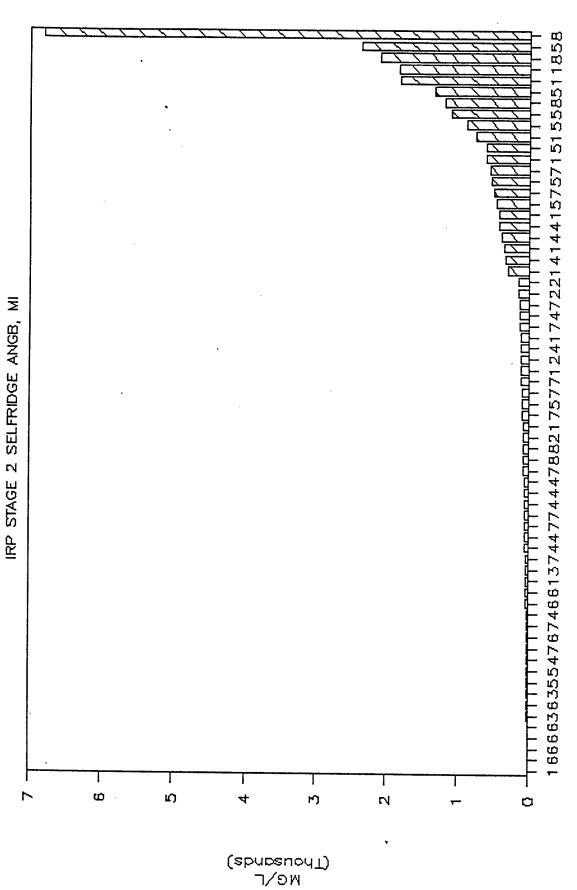
Ŋ

Ŋ

6 5

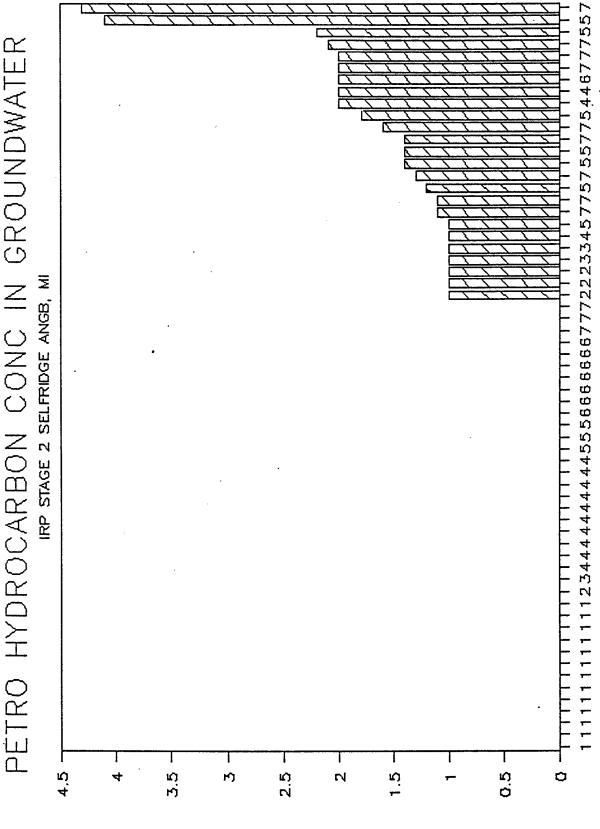
Ö

CHLORIDE CONCENTRATION IN GROUNDWATER



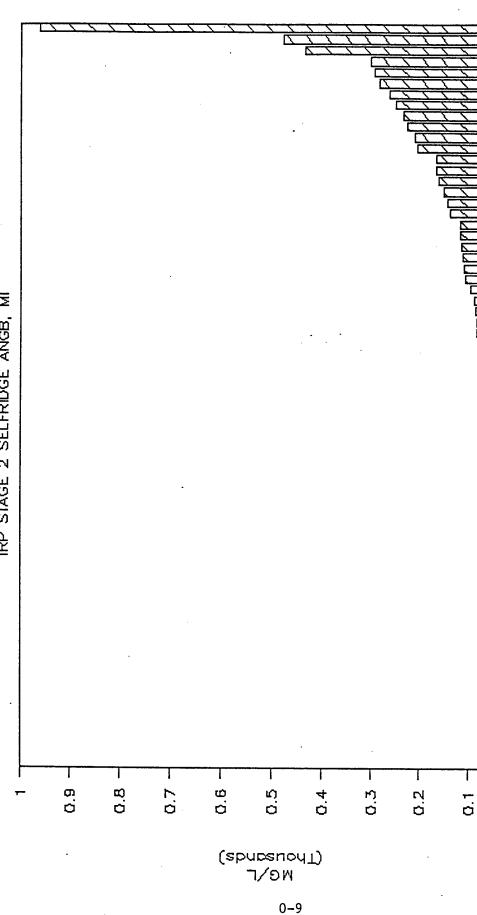
0 - 7





SAMPLE CONCENTRATION BY SITE LOCATION

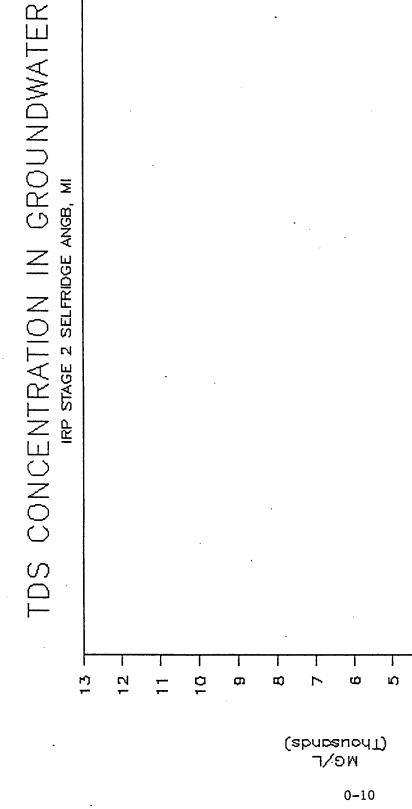
SULFATE CONCENTRATION IN GROUNDWATER IRP STAGE 2 SELFRIDGE ANGB, MI



SAMPLE CONCENTRATION BY SITE LOCATION

778717647567544141151177371443144713778467624461188685555555125224614

Ö





7744467144633347647662764677447412145567212411581515185151551858187

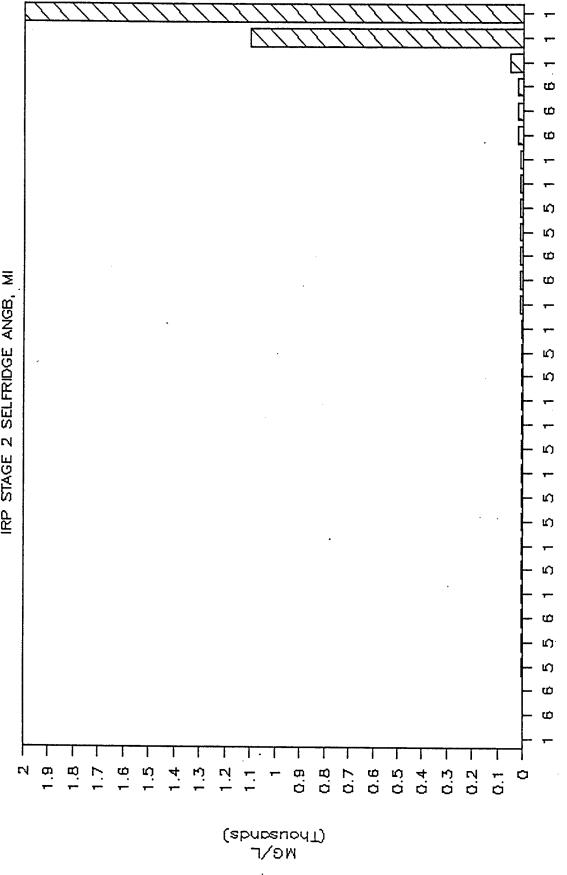
Ö

m

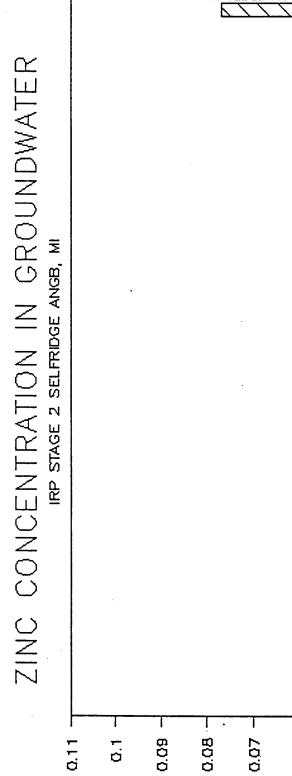
4

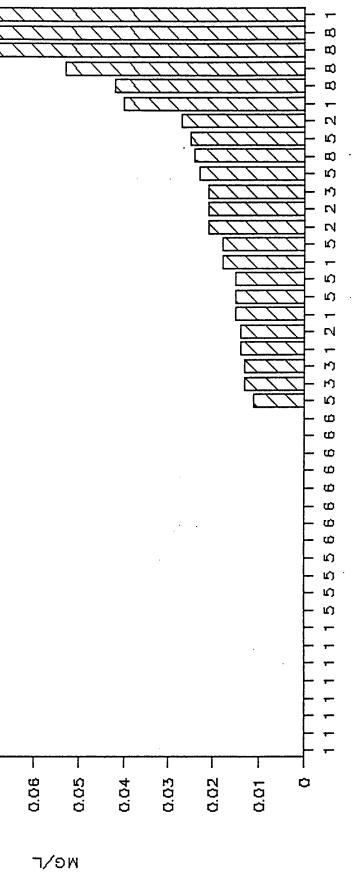
N





0-11





SAMPLE CONCENTRATION BY SITE LOCATION

TABLE 0-2 SORTED SURFACE WATER SAMPLE ANALYTICAL DATA ROUND 1 IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

	loride	Sı	ılfate		.k	TD	s	pr	T HYD
Sample	mg∕l	Sample	mg/l	Sample	mg/l	Sample		Sample	mg/l
7 524 W001 6 520 W001 2 508 W001 1 505 W001 4 510 W001 2 509 W001 2 506 W001 1 503 W101 2 507 W001 1 503 W101 2 507 W001 6 519 W001 7 523 W001 4 512 W001 7 522 W001 5 518 W001 5 517 W001 5 517 W001 5 516 W001 5 517 W001 5 517 W001	3.3	7 524 W00 1 505 W00 2 507 W00 5 514 W00 6 520 W00 2 508 W00 7 522 W00 6 519 W00 1 503 W00 1 503 W10 7 521 W00 7 523 W00 1 503 W00 1 504 W00 1 504 W00 1 504 W00 1 504 W00 1 504 W00 1 504 W00 1 504 W00 1 501 W00 1 501 W00 1 501 W00	10.7 11.2 11.3 15.3 15.8 16.7 21.8 26.6 27.8 27.8 27.8 28.2 30.1 33.3 42.2 48.8 55.1	7 524 W001 6 520 W001 5 517 W001 5 518 W001 7 521 W001 7 522 W001 4 513 W001 4 512 W101 1 504 W001 1 504 W001 2 509 W001 1 503 W001 1 503 W001 1 503 W001 1 503 W001 1 503 W001 1 505 W001 1 505 W001 1 505 W001 2 506 W001 1 501 W001 2 507 W001	180 180 190 290 320 320 320 320 340 350 360 360 390 460 530 540	1 501 W001 1 503 W001 2 506 W021 5 515 W021 6 520 W021 1 505 W021 2 509 W021 1 504 W021 5 518 W021 2 508 W021 2 508 W021 4 512 W021 4 513 W021 4 513 W021 7 522 W021 4 510 W021 7 523 W021 1 502 W021 1 502 W021 5 517 W021 6 519 W021 7 521 W021		1 503 W001 1 503 W101 1 503 W101 2 506 W001 2 507 W001 6 507 W021 7 522 W021 7 524 W021 7 524 W001 1 502 W001 1 502 W001 1 502 W001 4 512 W001 4 512 W101 4 512 W101 2 509 W001 2 508 W001 1 501 W001 7 521 W001	1.1 1.1 1.3 1.5 1.6 1.7 1.7 1.9 1.9 2 2.4 2.5 4.6
AVG STD VAR	139.932 298.1357 88884.94	AVG STD VAR	38.356 37.98786 1443.077	AVG STD VAR	340.3846 125.5903 15772.92	AVG STD VAR	518.5 476.6159 227162.7	AVG STD VAR	1.876470 0.793005 0.628858

SORTED SURFACE WATER SAMPLE ANALYTICAL DATA ROUND 2 IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

Chloride	Sulfate	Alk	TDS	PET HYD
Sample mg/l	Sample mg/l	Sample mg/l	Sample mg/l	Sample mg/l
2 507 W002 7 524 W002 6 520 W002 2 508 W002 9 .3 4 510 W002 11.9 1 505 W002 16.3 2 509 W002 21.4 4 513 W002 1 503 W102 39.7 7 523 W002 4 512 W002 4 512 W002 6 519 W002 6 519 W002 7 521 W002 1 503 W002 1 503 W002 2 502 4 512 W002 5 516 W002 5 516 W002 5 516 W002 1 503 W002 1 503 W002 1 503 W002 1 503 W002 2 502 6 519 W002 1 503 W002 1 503 W002 2 502 8 503 W002 1 503 W002 2 6 519 W002 3 8 1 504 W002 3 9 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 522 W002 3 9 7 7 7 522 W002 3 1 501 W002 3 1 501 W002 3 1 501 W002 3 1 501 W002 3 1 501 W002 3 1 501 W002 3 1 501 W002 3 2 8 5 5 14 W002 3 1 501 W002 3 1 501 W002 3 2 8 5 5 15 W002 3 1 500 W002 3 2 8 5 5 15 W002 3 2 8 5 5 15 W002 3 2 8 5 5 15 W002	2 507 W002 5 518 W002 5.8 1 503 W002 6.4 1 503 W102 7.4 4 510 W002 21.1 2 508 W002 25.9 6 520 W002 35.5 7 524 W002 35.5 7 522 W002 43 2 509 W002 45.6 4 513 W002 49.8 7 523 W002 51.2 1 502 W002 54.3 7 521 W002 54.3 7 521 W002 54.4 4 511 W002 54.4 4 512 W002 75 6 519 W002 75 6 519 W002 92.5 5 515 W002 92.5 5 515 W002 105 1 505 W002 325	7 524 W002 72 5 516 W002 130 5 518 W002 170 6 520 W002 210 7 521 W002 240 4 512 W002 260 4 512 W002 260 4 511 W002 260 4 511 W002 270 5 517 W002 280 2 508 W002 290 1 503 W002 290 1 503 W002 300 6 519 W002 310 1 504 W002 310 7 523 W002 310 7 523 W002 310 7 523 W002 310 7 523 W002 330 5 515 W002 360 1 502 W002 390 4 510 W002 410 4 513 W002 480 5 514 W002 680 2 507 W002 680	5 515 W022 7 524 W022 110 5 517 W022 170 5 518 W022 190 5 516 W022 270 6 520 W022 280 4 511 W002 330 1 503 W102 340 2 508 W002 350 1 503 W002 380 1 503 W002 380 2 509 W002 410 4 513 W002 420 4 512 W002 440 7 523 W022 440 7 523 W022 440 7 523 W022 460 7 521 W022 510 6 519 W022 510 6 519 W022 570 1 504 W002 600 1 502 W002 990 2 507 W002 1100 1 501 W002 1400 5 514 W002 2000	1 502 W002 5 515 W002 4 511 W002 1.1 4 510 W002 1.2 4 512 W002 1.3 2 509 W002 1.3 1 503 W102 1.3 4 512 W002 1.4 1 504 W002 1.4 7 524 W022 1.5 1 505 W002 1.5 1 501 W002 1.5 1 501 W002 1.6 7 521 W022 1.6 7 521 W022 1.6 7 521 W022 1.6 7 521 W022 1.6 7 521 W022 1.6 7 521 W022 1.7 5 516 W022 1.8 5 518 W022 1.7 5 516 W022 1.8 5 518 W022 1.9 4 513 W002 1.9 4 513 W002 2.1 7 523 W022 2.3 5 517 W022 2.3 5 517 W022 3.6
AVG 175.8541 STD 286.3598 VAR 82001.94	AVG 60.97083 STD 61.61549 VAR 3796.468	AVG 392.48 STD 446.3617 VAR 199238.8	AVG 547.0833 STD 418.9220 VAR 175495.6	AVG 1.717391 STD 0.534588 VAR 0.285784

AVG - Average of detected concentrations.
STD - Standard deviation of detected concentrations.
VAR - Variance of detected concentrations.
Listed values and sample sites used to create associated histograms.

TABLE 0-2 (Continued) SORTED SURFACE WATER SAMPLE ANALYTICAL DATA ROUND 1 IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

COD	Ammonia	TOC	BARIUM	ZINC
Sample mg/	Sample mg	i Sample mg/l	Sample mg/i	Sample mg/l
1 505 W001 1 5 517 W001 1 5 518 W001 1 1 504 W001 2 5 514 W001 2 5 516 W001 2 1 502 W001 4 1 503 W001 5 1 503 W101 5 5 515 W001 5 6 520 W001 16 6 519 W001 16	7 1 505 W001 0 9 1 502 W001 0 1 503 W001 0 4 1 503 W101 0 5 5 517 W001 0 1 1 501 W001 0 5 5 518 W001 0 7 6 520 W001 0 6 519 W001 0 5 516 W001 0	1 5 517 W001 6.4 2 1 504 W001 6.6 2 5 518 W001 7.4 3 5 514 W001 7.4 4 6 520 W001 7.1 4 5 516 W001 8.3 5 1 502 W001 1	5 2 508 W001 2 509 W001 5 517 W001 7 5 518 W001 6 519 W001 0.051 1 1 503 W101 0.054 2 2 506 W001 0.068 7 5 516 W001 0.068 7 5 516 W001 0.074 1 503 W001 0.101	1 505 W001 2 509 W001 1 503 W101

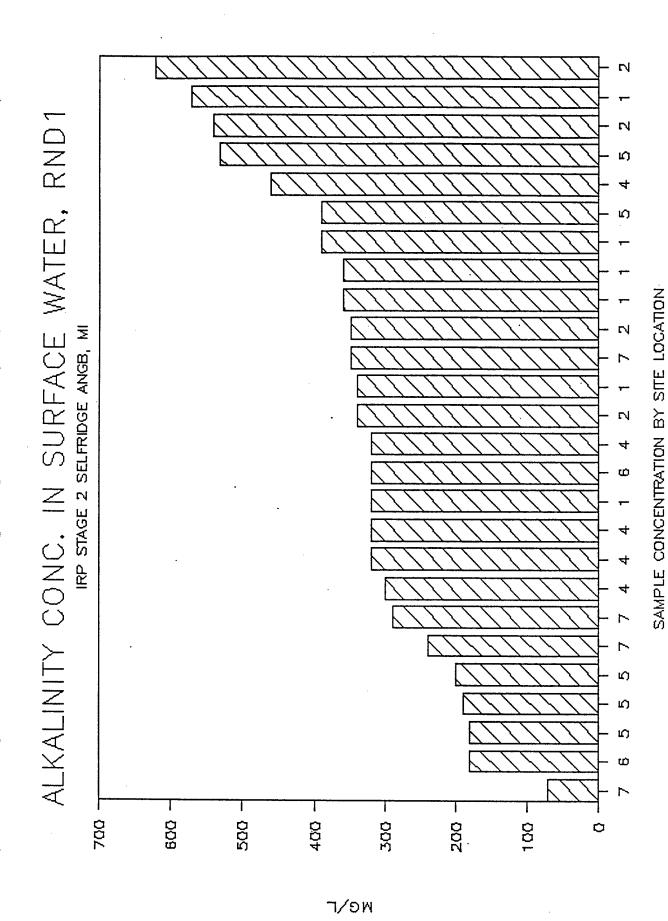
AVG 79.07692 AVG 0.446153 AVG 14.65384	AVG 0.166909	AVG 0.0684
STD 101.7148 STD 0.276281 STD 13.14215	STD 0.140945	STD 0.105695
VAR 10345.91 VAR 0.076331 VAR 172.7163	VAR 0.019865	VAR 0.011171

SORTED SURFACE WATER SAMPLE ANALYTICAL DATA ROUND 2 IRP STAGE 2 SELFRIDGE ANGB, MICHIGAN

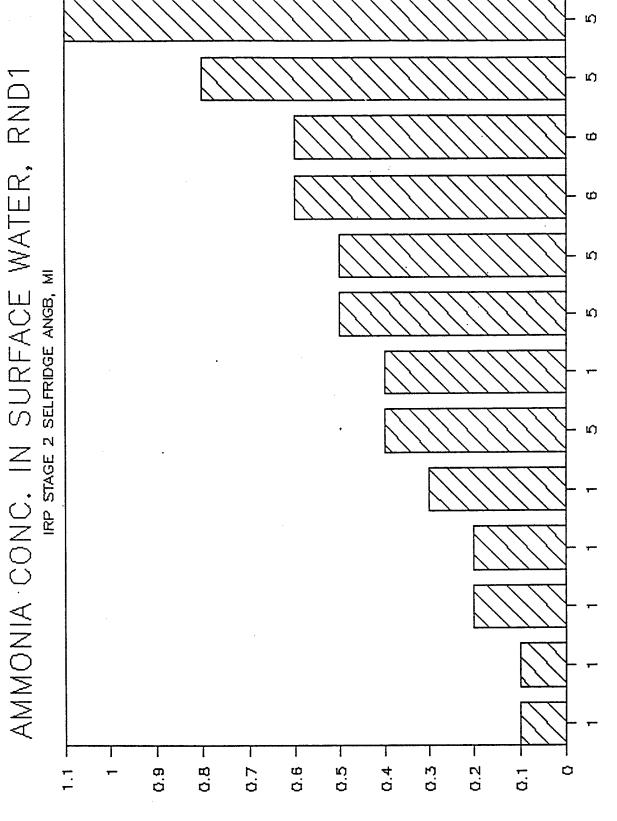
COD		Ammon	ia	тос		BARIU		ZINC	
Sample	mg/l	Sample	mg∕l	Sample	mg/l	Sample	mg/l	Sample	mg/l
1 501 W022 1 503 W022 5 515 W022 1 505 W022 5 516 W022 1 504 W002 5 518 W002 5 517 W002 1 502 W002 6 520 W022 5 514 W022 6 519 W002	11 29 31 37 39 60 64 76 80	1 502 W002 1 505 W002 1 501 W002 5 518 W002 1 503 W102 1 503 W102 5 517 W002 5 516 W002 6 519 W002 6 520 W002 5 515 W002 5 514 W002	0.2 0.2 0.2 0.3 0.4 0.4 1.8	1 504 W002 5 518 W002 5 515 W002 5 516 W002 5 517 W002 6 520 W002 5 514 W002 1 502 W002 6 519 W002 1 503 W002 1 503 W002 1 501 W002	6.1 6.4 8.8 8.5 12 15 16 24 31 34 100	1 503 W102 1 504 W002 1 505 W002 2 508 W002 2 508 W002 5 516 W002 6 519 W002 5 518 W002 1 503 W002 1 502 W002 2 507 W002 2 507 W002 1 501 W002 5 514 W002 1 501 W002 6 520 W002	0.052 0.06 0.102 0.11 0.155 0.221 0.28 0.385 1.31	1 504 W002 1 505 W002 2 509 W002 5 514 W002 2 508 W002 5 517 W002 5 518 W002 1 503 W102 1 503 W102 1 503 W002 5 516 W002 5 515 W002 1 502 W002 1 501 W002 6 520 W002	0.013 0.017 0.034 0.039 0.041 0.056 0.07 0.091 0.108 0.148 0.185 0.242 0.943

•	 	 				
	0.55 0.492442 0.2425	22.48333 25.07298 628.6547	AVG STD	0.297222 0.372578 0.138814	AVG STD VAR	0.145071 0.230532 0.053145

AVG - Average of detected concentrations.
SID - Standard deviation of detected concentrations.
VAR - Variance of detected concentrations.
Listed values and sample sites used to create associated histograms.



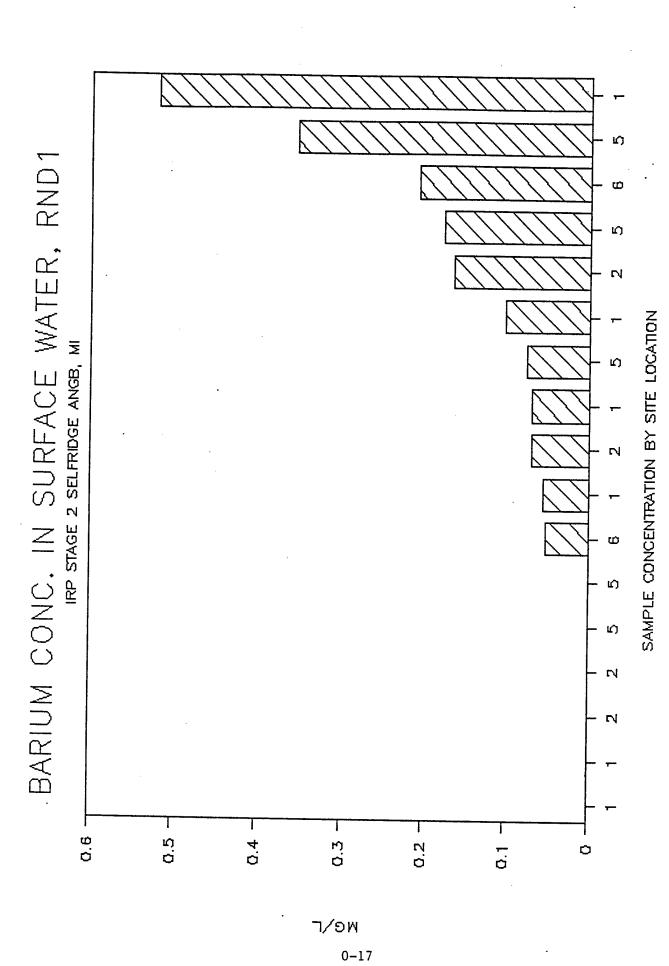
0-15

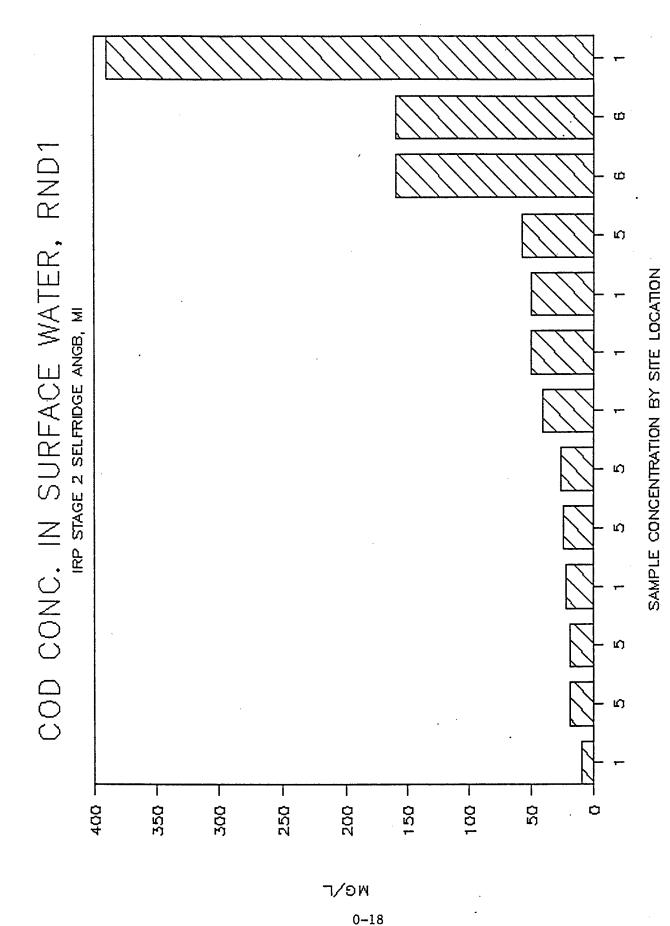


MG/r

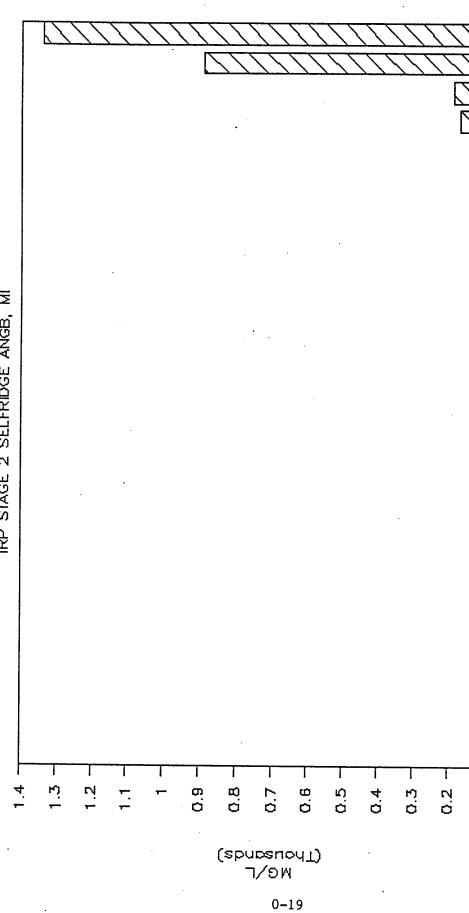
0-16

SAMPLE CONCENTRATION BY SITE LOCATION





CHLORIDE CONC. IN SURFACE WATER, RND1 IRP STAGE 2 SELFRIDGE ANGB, MI



SAMPLE CONCENTRATION BY SITE LOCATION

N

Ŵ

0.1

Ö

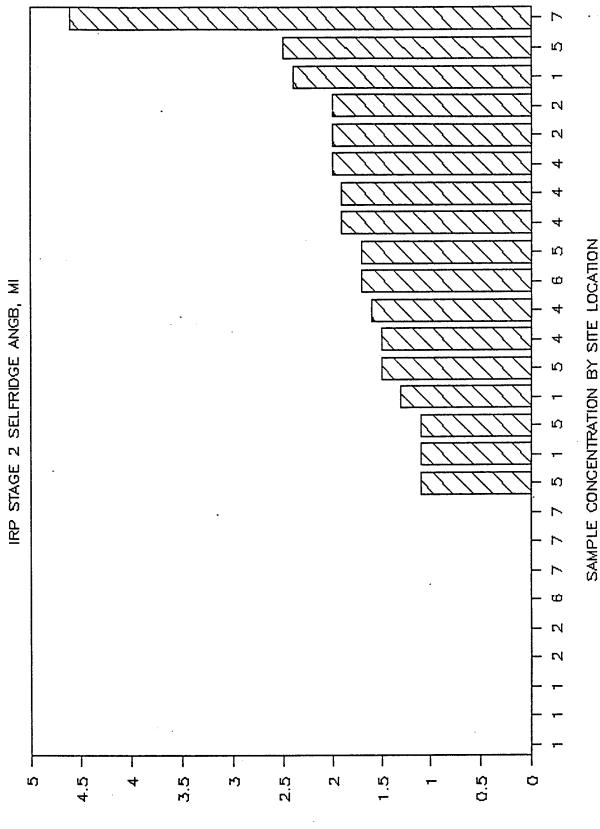
Ŋ

Ŋ

Ŋ

ĽŊ

PET. HYD. CONC. IN SURFACE WATER, RND1



MG/L

0-20

SULFATE CONC. IN SURFACE WATER, RND1 IRP STAGE 2 SELFRIDGE ANGB, MI ώ Ŋ 70 Ç

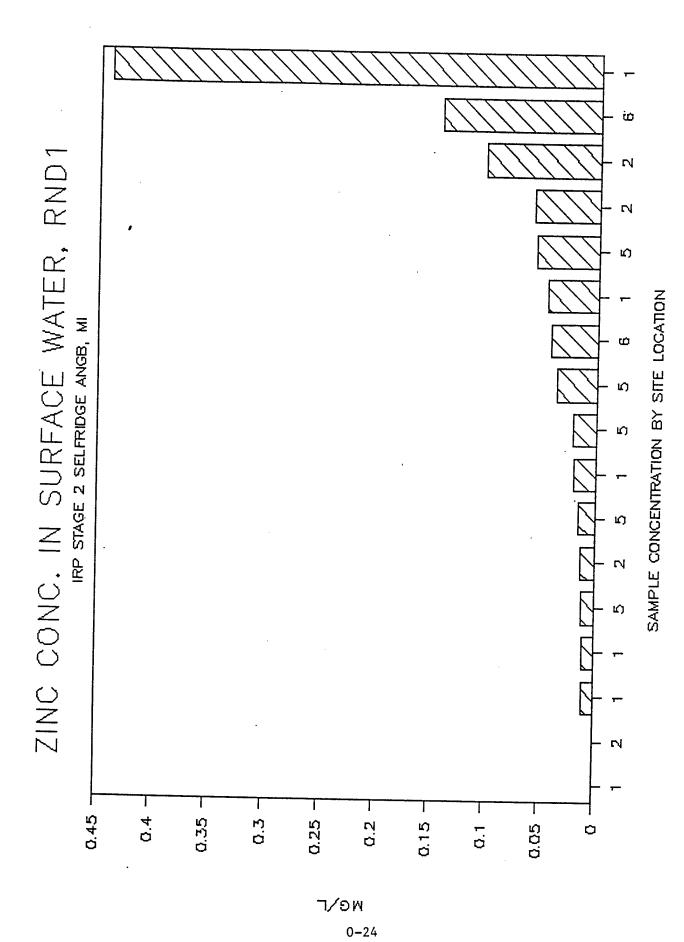
SAMPLE CONCENTRATION BY SITE LOCATION

ψ TDS CONC. IN SURFACE WATER, RND1 IRP STAGE 2 SELFRIDGE ANGB, MI ဏ် மி N 0.8 0.6 0.2 2.4 ٦. ھ 4.0 2.6 2.2 ₽. 13 O Ŋ 4. (Thousands) 0-22

Ö TOC CONC. IN SURFACE WATER, RND1 IRP STAGE 2 SELFRIDGE ANGB, MI Ŋ Ŋ 50 -60 404 20 Š Ö Ö

MG/L

0-23



ALKALINITY CONC. IN SURFACE WATER, RND2 IRP STAGE 2 SELFRIDGE ANGB, MI 2.6 2.4 2.2 ₽. 13 1.6 N --1.2 (Tyonsauqz) WG/F



ψ

Ŋ

Ŋ

Ö

0.8

0-25

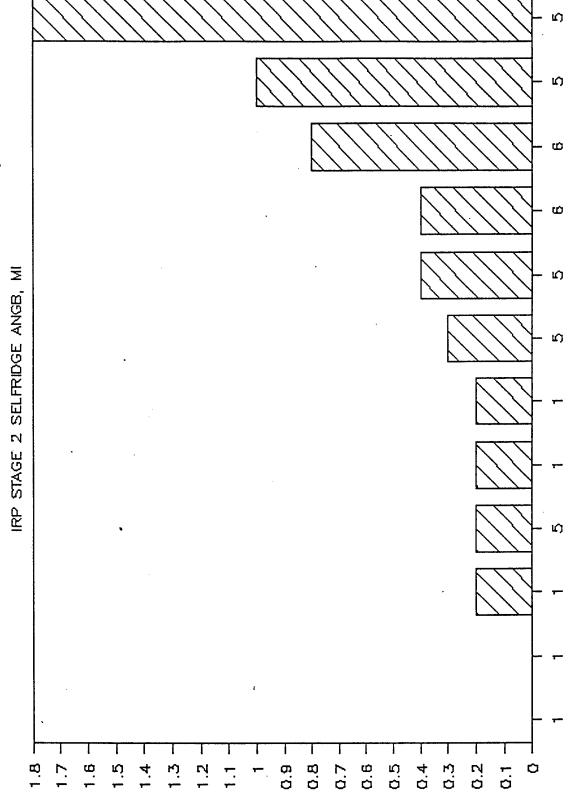
0.6

4.0

0.2

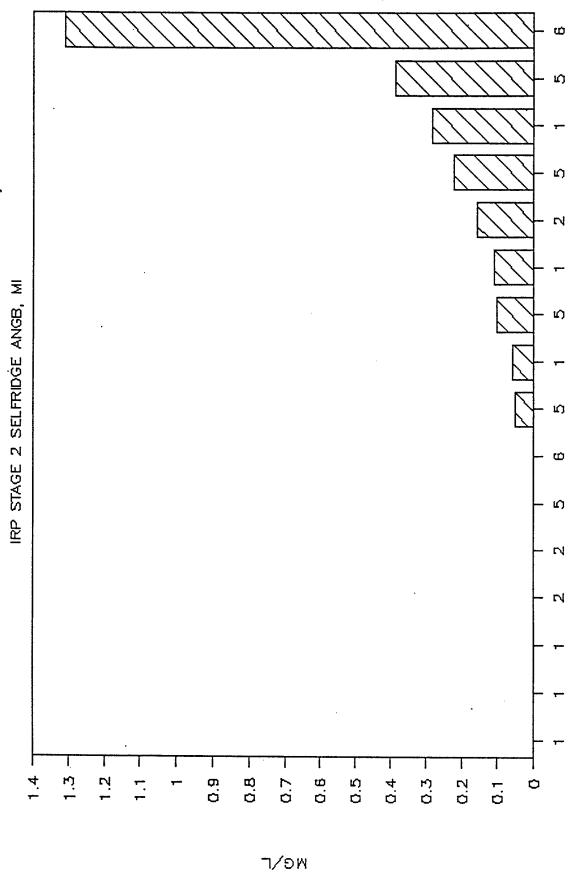
Ŋ



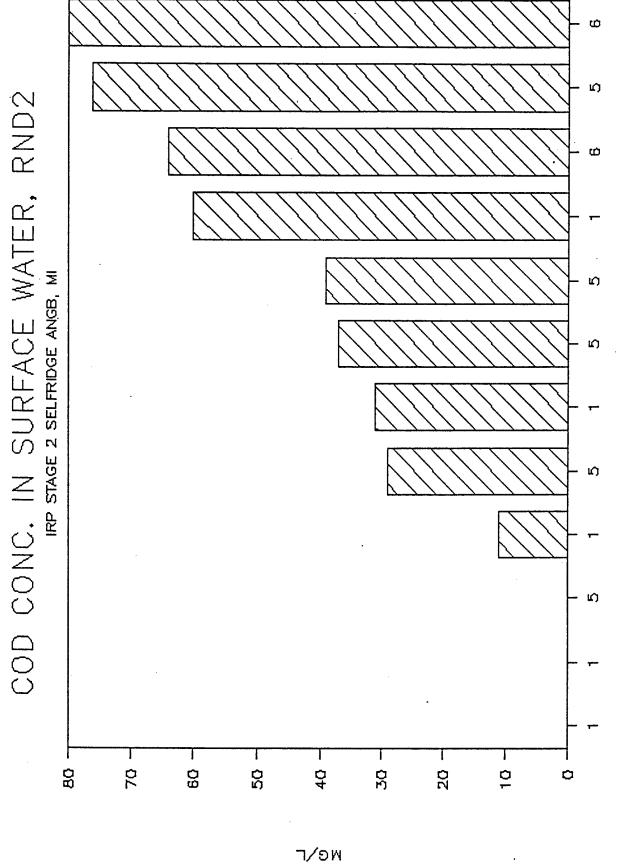


SAMPLE CONCENTRATION BY SITE LOCATION

BARIUM CONC. IN SURFACE WATER, RND2



0-27



0-28

SAMPLE CONCENTRATION BY SITE LOCATION

CHLORIDE CONC. IN SURFACE WATER, RND2 IRP STAGE 2 SELFRIDGE ANGB, MI 7. **L**) 0.9 0.8 0.7 0.6 (Tyonsauqs)

SAMPLE CONCENTRATION BY SITE LOCATION

Ó

0.5

0-29

4.0

0.3

0.2

0.1

Ö

K)

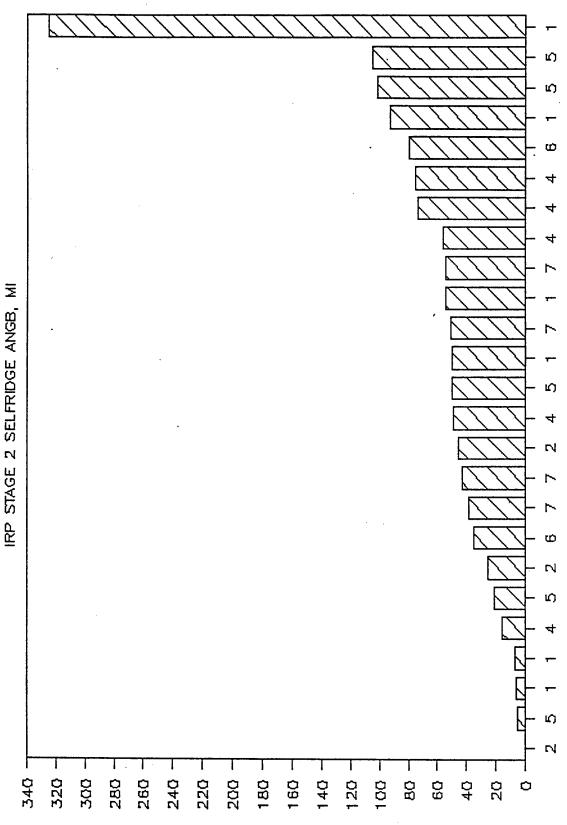
Ŋ

Ŋ PET. HYD. CONC. IN SURFACE WATER, RND2 IRP STAGE 2 SELFRIDGE ANGB, MI Ŋ S R) 2.5 3.5 H) Ŋ ا ت 0.5 O

MG/L

0-30

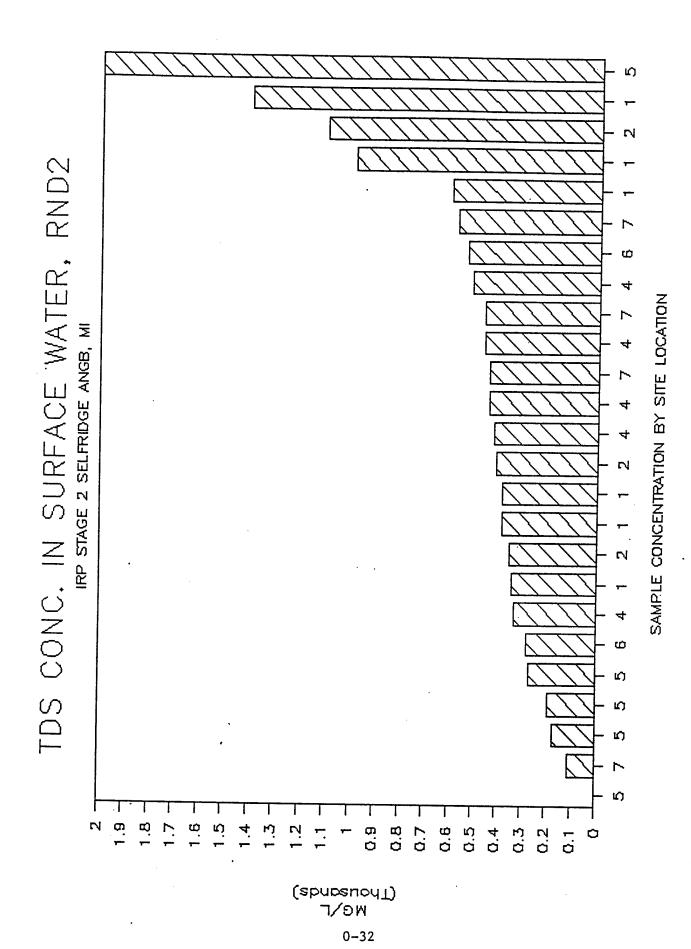
SULFATE CONC. IN SURFACE WATER, RND2 IRP STAGE 2 SELFRIDGE ANGB, MI



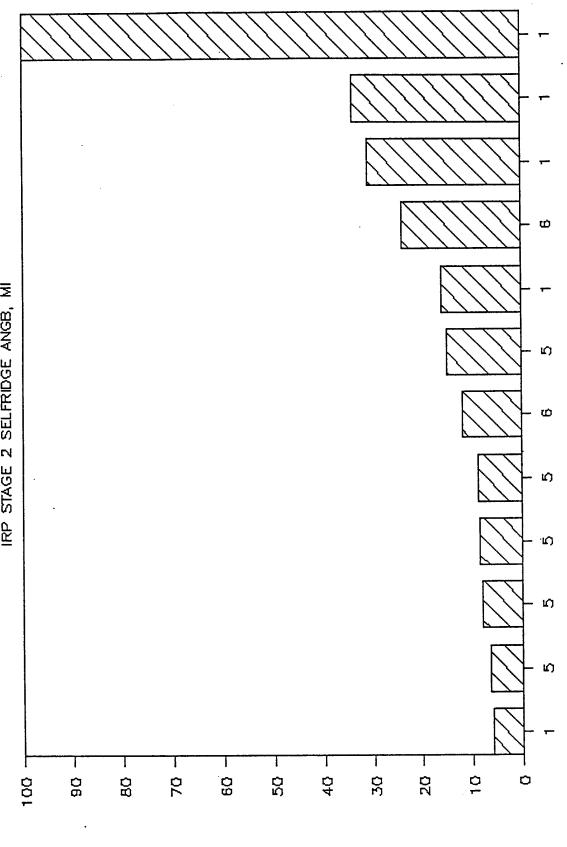
MG/L

0-31

SAMPLE CONCENTRATION BY SITE LOCATION



TOC CONC. IN SURFACE WATER, RND2 IRP STAGE 2 SELFRIDGE ANGR, MI

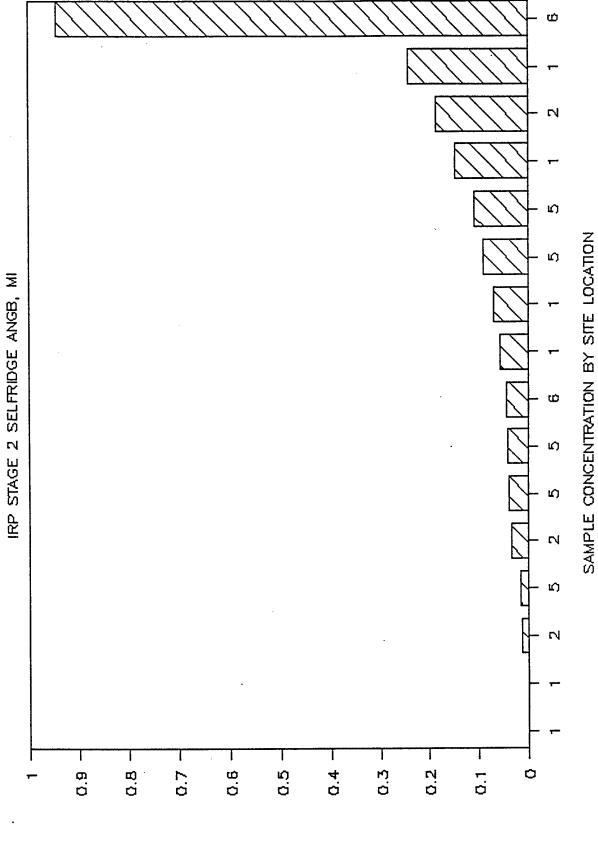


MG/L

0-33

SAMPLE CONCENTRATION BY SITE LOCATION

ZINC CONC. IN SURFACE WATER, RND2



MG/L

0-34



APPENDIX P

DEFENSE PRIORITY MODEL

Southwest Landfill (SWLF) Defense Priority Model List of Comments Used to Justify Scoring

Item <u>Number</u>	Comment
1.	Several contaminants, such as trichlorofluor-methane, phenol, and petroleum hydrocarbons were detected in the surface water. Analytical results are valid. Score as 100.
11.	Use score of 1.0 for waste containment effective- ness because some waste is exposed at the surface and new waste is added to the site. Also the cover is not properly graded, low spots occur, and it is not in good condition. There are no measures for preventing run-on or controlling run-off. Contaminants were detected in surface water near the base of uncovered construction debris. The active area where demolition debris is being dumped is not covered daily. Ponding of surface water occurs on the landfill surface.
13.	The contaminants xylenes, vinyl chloride, trichloroethene, toluene, TCE, petroleum hydrocarbons were detected in the groundwater. These concentrations are above background. Score as 100.
21.	Assigned a score of 1.0 because contaminants have been detected in the groundwater, and the landfill does not have a liner. No groundwater cleanup has been performed. General lack of a physical contaminant systems at the site.
23-42	Scoring of these questions is based on calculated sums and logs shown on hazard tables detailing the contaminants detected at the SWLF.
43.	The Mt Clemens water intake is greater than three miles from the SWLF. Score as 0.
44.	Assign a score of 3 based on the city water intake being more than 3 miles away and that untreated untreated surface water runoff is pumped into the Clinton River. Also water fowl using surface water bodies and fish in the river could serve as pathways for contaminants.

- 45. Population within 1,000 feet of the site numbers approximately 26-100. The population consists mainly of ground maintenance personnel and workers in the warehouses to the west of the site. Score as 2.
- 46. Distance to newest installation boundary is approximately 450 feet. Score as 3.
- 47. Land use within one mile is predominantly residential. Score as 3.
- 50. Assign a score of 1 because untreated surface water is discharged into the Clinton River. Lake St. Clair is >3 miles downstream and will not be considered in scoring.
- 51. No known critical environments occur within 1 mile of the SWLF. Score as 0.
- No wells are known to be used for supplying water within 1 mile of the site. Wells to the SE of the SWLF would not be reached by contaminants because of slow groundwater velocities and the thick lacustrine clay deposit. The presence of upward gradients at the base would tend to prevent migration of contaminants to the screened interval. Score as 0.
- No use of surface water occurs within 3 miles of site. Groundwater that would be intercepted by stormwater drainage line is discharged into the Clinton River but would not impact the drinking water source. Score as 0.
- 56. No groundwater is used from beneath or near the SWLF site. Wells within one mile of the site do not produce domestic drinking water. Score as 0.
- 57. No groundwater within one mile of the site is used by any of the local population. Water is supplied by the city treatment plant. No surface water used for drinking water within three miles of the site. Score as 0.
- 58. The population of residential and daytime base personnel within one mile of the site is approximately 26-100. This is based on the number

A0008 P-2

of people working in warehouses west of site and ground maintenance people accessing SWLF. Score as 2.

- Distance to the nearest installation boundary is less than 3,000 ft. Score as 3.
- 62. Groundwater flow at the site is to the east would be intercepted by agricultural drain tiles. Based on the fastest travel time it would take approximately 4 years to reach the tiles. Score as 3.
- Ontreated groundwater would be discharged by the stormwater drainage system into the Clinton River. The river would be effected, but not Lake St. Clair because it is more than 3 miles from the site. Score as 1.
- No known critical environments occur within one mile of SWLF. Score as 0.

Note to Question #55 --

Based on a phone conversation with an employee at the Mt Clemens water treatment plant, there are no domestic wells in the area being used to supply drinking water. All homes are supplied water by the city.

Site identification: Southwest Landfill (Site 01) - SWLF

SURFACE WATER PATHWAYS Conserved releases	Score (circle one)	Multiplier	Product (score x mult.)	Max. score
 Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2. 	• 🔞	1	100	100
Pathway characteristics				
2. Distance to nearest surface water	0 1 2 3	4		12
3. Net precipitation	0 1 2 3	1		3
4. Surface erosion potential	0 1 2 3	4		12
5. Rainfall intensity	0 1 2 3	4		12
6. Surface permeability	0 1 2 3	3		9
7. Sum of items 2 through 6				48
8. Normalized score (multiply item 7 x 100/48)				
9. Flooding potential	0 1 2 3	8		24
10. Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 10			100	
11. Waste containment effectiveness factor (Table 2)			1.0	•
12. Final score for surface water pathways (multiply i	tem 10 x it	em 11)	100	

COMMENTS ON SURFACE WATER PATHWAYS

All Comments are presented on the typed pages following the scoring sheets for the SWLF.

Prepared by In D. Checked by RHG 12/9/88

Site identification: SWLF

Obse	erved releases	_	ciro one	le	Multiplier	Product (score x mult.)	Ma:
13.	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	0		100	1	100	1
Path	way characteristics						
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0	1 2	2 3	9		a
15.	Permeability of the unsaturated zone	0	1 2	2 3	5		
16.	Infiltration potential	0	1 2	2 3	5		
17.	Sum of items 14 through 16						
18.	Normalized score (multiply item 17 x 100/57)						
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water table		1 2	2 3	5		:
20.	Adjusted pathways score. If item 13 is 100, enter 1 If item 13 is 0, enter sum of items 18 and 19. If sum exceeds 100, enter 100.	100.				100	
21.	Waste containment effectiveness factor (Table 5)					1.0	
22.	Final score for groundwater pathways (multiply item	20	x i	tem 2	1)	100	

COMMENTS ON GROUNDWATER PATHWAYS

Site identification SWL

CONTAMINANT	HAZARD	SURFACE	WATER
-------------	--------	---------	-------

If contaminants have been detected in surface water (score of 100 in item 1), complete items 23 through 28. If contaminants have not been detected (score of 0 in item 1), complete items 29 through 32. Attach Hazard Worksheet or list of contaminants, as appropriate.

Score

Result

Logarithm

		(circle one)		(base 10)
23.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	one;	<u>82279</u>	4.9
24.	Human health hazard score	0 1 2 4 6		
25.	Normalized human health hazard score (multiply item 24 x $100/6$)		100	
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		220	2.3
27.	Ecological hazard score	0 1 2 3		
28.	Normalized ecological hazard score (multiply item 27 x 100/6)	4(5)6	<u>83.3</u> 33	i e
29.	Maximum human health hazard index	0 1 2 3 4 5 6 7 8 9		
30.	Normalized human health hazard accord (authority to the page 1	36/69	Contami	nant:
	100,00			
31.	Maximum ecological hazard index	0 1 2 4 6	Contami	nant:
32	Normalized ecological hazard score (multiply item 31 x 100/6)			
CONTAM If cor	AINANT HAZARD GROUNDWATER Itaminants have been detected in groundwater (score of 100 in item 13)	, complete it	ems 33 thro	ugh 38. If contaminants
CONTAM If cor have r	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 minants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard	, complete it 2. Attach Ha	zard Worksh	ugh 38. If contaminants
CONTAM If con have r contam	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 minants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	2. Attach Ha	ems 33 throizard Worksh	ugh 38. If contaminants
CONTAM If contam and contam 33.	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 ninants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score	, complete it 2. Attach Ha	151997	ugh 38. If contaminants
CONTAM If contam 33. 34.	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 ninants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6)	2. Attach Ha	zard Worksh	ugh 38. If contaminants
CONTAM If contam 33. 34.	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 ninants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score	2. Attach Ha	151997	ugh 38. If contaminants est or list of 5.1 3.2
CONTAMILE CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAMINATION CONTAM	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 ninants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of	2. Attach Ha 0 1 2 4 6	151997	5.1
CONTAMIF contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 ninants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6)	0 1 2 4 6 0 1 2 3 4 5 6	151997	5.1
CONTAMIF contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 ninants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score	0 1 2 4 6 0 1 2 3 4 5 6	151997 100 1854	5.1 3.2
CONTAM If cor have r contam 33. 34. 35. 36. 37. 38.	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 ninants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6)	0 1 2 4 6 0 1 2 3 4 5 6	151997 100 1854 100	5.1 3.2
CONTAMIF contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the contamination of the	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 minants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6) Maximum human health hazard index	0 1 2 4 6 0 1 2 3 4 5 6	151997 100 1854 100	5.1 3.2

Site identification: SWLF

-		Score (circle one)	<u>Multiplier</u>	Product (score x mult.)	Max. score
١.	Population that obtains drinking water from potentially affected surface water body(ies) within 3 miles (4.8 km) downstream	0 1 2 3	3	0	9
٠.	Water use of nearest surface water body(ies)	0 123	3	6	9
5.	Population within 1000 ft (305 m) of the site	0 123	1	2	3
6.	Distance to the nearest installation boundary	0 1 2 3	1	3	3
7.	Land use and/or zoning within 1 mile (1.6 km) of the site	0 1 2(3)	1	3	3
8.	Sum of items 43 through 47			14	27
9.	Final score for human health receptors on surface water pathways (multiply item $48 \times 100/27$)		51.852		
201	OGICAL RECEPTORS SURFACE WATER PATHWAYS				
٥.	Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site	012 3	5	5	15
1.	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	0	3
2.	Sum of items 50 and 51			5	18
3.	Final score for ecological receptors on surface water pathways (multiply item 52 x 100/18)			<u>27.77</u> 8	

COMMENTS ON SURFACE WATER RECEPTORS

Site identification:SWLF

HUMAN	HEAL	LTH RECEPTORS GROUNDWATER PATHWAY	Score (circle one)	<u>Multiplier</u>	Product Max. (score x score mult.)
	54.	Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s)	①1 2 3	g .	
5	55.	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	①1 2 3	5	0 15
9	56.	Groundwater use of the uppermost aquifer	①1 2 3	4	012
:	57.	Population potentially at risk from groundwater contamination	0 6 9 12 18 24 27 36	1	<u> </u>
2	58.	Population within 1000 ft (305 m) of the site	0 123	1	<u>2</u> 3
;	59.	Distance to the nearest installation boundary	0 1 2(3)	1	<u>3</u> 3
(60.	Sum of items 54 through 59			596
ı	61.	Final score for human health receptors on groundwater pathways (multiply item 60 x 100/96)	•	·	<u>5.208</u> .
ECOLO	GICA	L RECEPTORS GROUNDWATER PATHWAYS	· · · · · · · · · · · · · · · · · · ·		
	62.	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	0 1 23	3	<u>9</u> 9
	63.	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0123	3	
	64.	Presence of "critical environments" within 1 mile (1.5 km) of the site	1 3	1	3
	65.	Sum of items 62 through 64		,	12 21
	66.	Final score for ecological receptors on groundwater pathways (multiply item 65 x $100/21$)			57.143

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

Site identification:SWLF

SCORING SUMMARY SHEET

		Pat	hways scor	<u>e</u>	Contaminant hazard score	Rec	eptors sco	<u>e 2</u>		Overall score
67.	Surface water/human health scores	(100 item 12	x	100 item 25/30	x	51.852 item 49)	/10,000 =	51.852
68.	Surface water/ecological scores	(100 item 12	×	83.333 item 28/32	x	27.778 item 53	•	/10,000 =	23.056
69.	Groundwater/human health scores	(100 item 22	×	100 item 35/40	x .	5.208 item 61)	/10,000 =	5.208
70.	Groundwater/ecological scores	(100 item 22	x	100 item 38/42	x	57.143)	/10,000 =	57.143

OVERALL SITE SCORE:

71.
$$\frac{51.852}{\text{item }67}^2 \times 5 + \frac{23.0562}{\text{item }68} + (\frac{5.208}{\text{item }69})^2 \times 5 + (\frac{57.143}{\text{item }70})^2 = \frac{17375.666}{\text{item }70}$$

72. Overall site score =
$$\sqrt{\frac{17375}{\text{item } 71}} \cdot 666_{464} = \frac{38.053}{100} = 38$$

TABLE P-1
SWLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

HAZARD (10g/L1) (10g/day) (10g/L1) (10g/L1) 10 0.04 360 100 765 0.15 145500 100 765 0.15 145500 100 766 0.15 145500 100 770 0.016 14500 100 9 460 1700 9.2 200 9 460 1700 9.2 200 9 460 1700 9.2 200 9 460 1100 9.2 200 9 460 1100 9.2 200 9 460 1100 9.2 200 9 460 1100 9.2 200 9 460 1100 9.2 200 9 460 1100 9.2 200 9 6730 1000 9.2 200 100 1000 5210 5200 100 100 100 200 100 100 100 200 100 100 100 200 100 100 100 200 100 100 100 200 100 100 100 200 100 100 100 200 100 100 100 200 100 100 331000 100 100 100 331000 100 100 100 100 100 100 100 100 1	CONTAMINANT	CONCENTRATION	HEALTH EFFECTS	AGUALIC EFFECTS		COLOGIA	5
ALATE 10 0.04 3.000 765 0.15 14500 100 765 0.15 14500 100 765 0.15 14500 100 76 0.06 110 77 0.016 1170 77 0.016 118000 87 460 2850 77 9 460 118000 87 460 21800 87 460 21800 88 200 2100 700000 1100 2100 700000 1100 2100 87 260 1100 200 700000 1100 200 88 200 2800 2800 700000 1100 200 89 660 11000 200 80 67 46 17500 80 680 110000 80 681 9 4 58800 80 11000 200 80 12 12 1000 80 11000 200 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 11000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 100000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 10000 110000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 100000 80 1000000 80 1000000 80 10000000000	NAME SWLF GROUNDWATER CONTAMINANT HAZARD	(ng/L)	BENCHMARK (ug/day)	BENCHMARK (ug/L)	EFFECIS BENCHMAKK (ug/L)	(L/KG)	
10			8	1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000		
MATE 2 14500 10 10 10 10 10 10 10	SENIC	10	0.04	360			280
MATE		765	0.15	14500			4
NATE 2 10000 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 17	NZENE	09		5300			32
## Journal	UZVI DHTI	~		1700			980
17 0.016	T C D C W C T C C C C C C C C C C C C C C C C	27		99.0			20
9 460 1120 200 9.2 200 9.2 260 2850 2850 2850 2.6 112000 2850 2.6 112000 2850 2.6 112000 2850 2.6 112000 2850 2.6 112000 2850 2.6 112000 2850 2.6 112000 2850 2.6 11000 2850 2.6 11000 2850 2.6 11000 2.2 2.6 11000 2.2 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	MI INCO	17		16			200
## John Hills	DDFD		2000	9.5			210
15 118000 57.9 15 118000 65.0 2.6 135000 16	FIER CHI ODOBENZENE	٥	097	1120			069
7.9 15 118000 650 2.6 135000 FE 80 9.6 116 11000 FE 80 9.6 2120 92 2200 32000 700000 150 400 5000 700000 150 400 5000 700000 150 34 5000 87 260 1100 200 87 260 1100 200 87 260 1100 200 88 280 2300 89 200 1100 200 80 10000 81 330 80 10000 81 240 6800 11000 82 6800 11000 83 92 82 8000 84 22 8000 86 65 24 17500 86 65 24 17500 87 66 80 11000 88 65 24 17500 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89 2200 89	CHLONOSENEENE	93		2850			740
HETHANE 650 2.6 135000 METHANE 450 116 11000 METHANE 450 116 11000 METHANE 450 116 11000 METHANE 650 2.200 32000 MICHANE 7.3 10 9320 METHANE 6.7 4.2 45000 METHANE 6.7 4.2 45000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 7.3 1000 381000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 55000 METHANE 8.3 4.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000 METHANE 8.3 5.4 50000	CALCACOERZERE	0 2		118000			14
HETHANE 450 116 11000 FE 80 9.6 22100 80 9.6 22100 700000 150 400 55000 700000 150 400 5000 80 6730 0.25 350 80 6730 0.25 350 80 2800 80 2800 80 2800 80 2800 80 2800 80 2800 80 1100 280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 80 8280 8	CHLOROE LANG	059		135000			7.2
FE	CHLURUE I NENE	057		11000			ထ
RIDE 6730 9.6 2120 70000 70000 105 40 5000 70000 105 40 5000 70000 105 34 5000 70000 105 4 193000 70000 105 280 2800 200 70000 87 260 1100 200 200 70000 61.9 280 2800 10000 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.320 7.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 10 9.3 1	CALUNDING I MANE	140		52100			120
RIDE 6730 5000 5000 70000 150 400 5000 70000 150 400 5000 70000 150 400 5000 70000 150 400 5000 70000 150 400 5000 70000 100 34 5000 70000 87 280 2800 2800 2800 70000 1100 200 1100 200 1100 200 1100 200 1100 200 11000 110 9320 11000 110 9320 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 110 11000 11000 110 11000 11000 110 11000 11000 110 11000 11000 110 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 110000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 110000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 110000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 110000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 110000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000	_	8	_	2120			150
TORTON 150 400 5000 150 150 150 150 150 100 34 5000 150 150 100 34 5000 150 100 34 5000 1000 34 5000 350 200 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350 350	4EINTLPRENOL 1XI PENZENE	6		32000			290
100 34 5000 101 31 5000 102 350 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 103 200 104 20 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 105 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200	II LDENZEME	700007		07			100
CHLORIDE 310 0.25 350 200 NE 8280 2300 OL 0.7 8280 250 OL 0.7 8280 OL 0.7 8280 OL 0.7 8280 OL 0.7 8280 OL 0.7 8280 OL 0.7 8280 OL 0.7 8280 OL 0.7 8280 OL 0.7 8280 OL 0.005 61.9 OL 0.7 8280 OL 0.005 kg/day) CCOL 2) x (2c) (5) x (col 6) x (0.0055 kg/day) CCOL 2) x (col 6) x (col 3) CCOL 2) x (col 6) x (col 6) x (col 3) CCOL 2) x (col 6) x (col 6) x (col 6) x (col 3) CCOL 2) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x (col 6) x	2 0	0000		ř			300
CHLORIDE NE NE NE NE NE NE NE NE NE	S NE S E	02/9		35(400
280 2300 290 1100 200 0.7 8280 280 55 37300 280 55 37300 13 28800 14 20 1.2 7.3 10 9320 5.7 42 45000 14 1000 381000 16 15 1000 180 2000 11000 16 15500 17 42 45000 18 15500 10 16 13500 10 16 13500 10 16 13500 10 16 13500 10 16 13500 11 1000 11 1000 12 10 10 10 10 10 10 10 10 10 10 10 10 10	THYLENE CHLORIDE	310		19300(•	4.4
JP-4) JP-4) MOTOR OIL) SO00 61.9 MOTOR OIL) SO00 61.9 13 28800 14 20 1.2 7.3 10 9320 24 6500 24 4 52800 650 24 4 52800 17500 650 24 4 52800 17000 11 11000 210 16 13500 180 2000 1 * (2 L/day) * (col 8) / (col 13) / (col 4)	HTHALENE	٠	280	230(430
JP-4) JP-4) MOTOR OIL) S000 61.9 13 28800 61.9 10.000 14 20 1.2 7.3 10 9320 24 7.53 10 9320 650 24 7500 11 11000 210 16 15500 1600 381000 210 16 15500 180 2000 1 (col 6) x (0.0065 kg/day) 7 (col 8) 7 (col 8) 7 (col 8) 7 (col 1) 7 (col 1) 8 (col 1)	CKEL	87		1100			100
280 55 37300 JP-4) 13 28800 MOTOR OIL) 5000 61.9 AC C L/day) x (2 L/day) x (col 6) x (0.0065 kg/day) JP-4) 13 28800 64.9 6800 10000 7.3 10 9320 7.3 10 9320 7.3 4 5280 650 24 17500 7.4 42 45000 110 11000 381000 210 16 13500 2000 180 2000 180 7 (col 3) 7 (col 4)	TROPHENOL		0.7	828			
HAVE SOUGH 13 28800 HOTOR OIL) 5000 61.9 L4 20 1.2 7.3 10 9320 3.9 4 5280 650 24 17500 6.7 42 45000 11 11000 210 16 13500 2 L/42 45000 1 L/42 45000 2 L/42 45000 2 L/42 45000 2 L/42 45000 2 L/42 45000 3 R/1000 3 R/1000 1 R/1000 180 2 L/day) x (2 L/day) x (col 6) x (0.0065 kg/day) + (col 8) / (col 1) / (col 1) / (col 1)	NTACHLOROPHENOL		280	īxi			780
MOTOR OIL) 5000 61.9 14 20 1.2 7.3 10 9320 3.9 4 5280 650 24 17500 650 42 45000 11 11000 21 1000 381000 21 1000 180 2000 1 x (2 L/day) x (col 6) x (0.0065 kg/day) + (col 8) / (col 14)				2880	0		120
240 6800 10000 14 20 1.2 7.3 10 9320 3.9 4 5280 650 24 17500 6.7 42 45000 11 11000 210 16 13500 180 2000 1 1 1,000 180 2000 1 1 (col 3) 7 (col 4) 7 (col 4)		2000					
THANE THANE TO STATE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE THANE	ENOL	240			0		1.7
7.3 10 9320 3.9 4 5280 650 24 17500 6.7 42 45000 11 11000 210 16 13500 105 10000 180 2000 1 1 (cot 4) 1 (cot 4)	LVER	14		-	~		7
3.9 4 5280 650 24 17500 6.7 42 45000 11 11000 21 1000 381000 210 16 13500 x (2 L/day) x (cot 6) x (0.0065 kg/day) + (cot 8) y (cot 4) y (cot 4)	TRACHLOROETHANE	7.3		932	0		7.9
NE	TRACHLOROETHENE	3.9		528	0		77
ILOROFETHENE 6.7	LUENE	059		1750	0		83
11 11000 11 0ROFLUOROMETHANE 21 1000 381000 185 NES 105 10000 180 2000 1 7 = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x (0.0065 kg/day) 9 = (col 7) + (col 8) 10 = (col 9) / (col 4) 11 = (col 2) / (col 4)	ICHLOROETHENE	. 9		4500			1
L CHLORIDE 21 1000 381000 JES 210 16 13500 105 10000 180 2000 1 7 = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x (0.0065 kg/day) 9 = (col 7) + (col 8) 10 = (col 9) / (col 3) 11 = (col 2) / (col 4)	ICHLOROFLUOROMETHANE		1	1100	0		7,4
VES 210 16 13500 105 10000 180 2000 1 7 = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x (0.0065 kg/day) 9 = (col 7) + (col 8) 10 = (col 9) / (col 3) 11 = (col 2) / (col 4)	NYL CHLORIDE	21		נאן	0		7.2
7 = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x (0.0065 kg/day) 9 = (col 7) + (col 8) 10 = (col 9) / (col 3) 11 = (col 2) / (col 4)	LENES	210		1350			320
7 = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x 9 = (col 7) + (col 8) 10 = (col 9) / (col 3) 11 = (col 2) / (col 4)	NC	105	•	18			1000
8 = (col 2) × (col 6) × 9 = (col 7) + (col 8) 10 = (col 9) / (col 3) 11 = (col 2) / (col 4) 11 = (col 2) / (col 4)	7 = (col 2) x (2 L)						
10 = (col 9) / (col 11 = (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (col 2) / (8 = (col 2) × (col						
11 = (col 2) / (col 13 = (col 2) / (col	10 - (00 0) - (00 0)						
102) / (2) 102) = 61	11 = (501 %) / (501						
	107) / (7)						

TABLE P-1 (CONTINUED)	SWLF HAZARD WORKSHEET	IRP STAGE 2	SFI FRIDGE, MICHIGAN
-----------------------	-----------------------	-------------	----------------------

ROUNDWAT	CONTRACTOR			TOTAL	מבארום			
OUNDWAT		WATER INTAKE	INTAKE	INTAKE	HAZARD	HAZARD	HAZARD	
	SWLF GROUNDWATER CONTAMINANT HAZARD	(ug/day)	(ug/day)	(ug/day)	QUOTIENT	QUOTIENT	GOOT TEN	
		- C	0.000	0,0000	00000	0.0000	0000.0	
ALU	ALUMINUM	o (c	18 2000	38.2000	955,0000	0.0278	0.1000	
ARS	ARSENIC	1530	19.8900	1549.8900	10332,6000	0.0528	0.0000	
BAKIOM	EO.	120	12.4800	132,4800	4.4160	0.0113	0000.0	•
BEN	BENZENE	7	8.5800	12.5800	0.0013	0.0012	00000	
BUI	BUTYLBENZTLPHIHALAIE	70	15.2750	109.2750	5.4638	71.2121	4.7000	
CAD	CADMIUM	* %	22,1000	56,1000	3506.2500	1.0625	0.1700	
S CH	CHKOMIUM	5 6	0000	0.0000	0000	0.000	0.000	
3 2	COFFEK	18	40,3650	58.3650	0.1269	0.0080	0.000	
	DICHLOROBENZENE	186	447.3300	633.3300	1.3768	0.0326	0,0000	
	DICHLOROBENZENE	15.8	0.7189	16.5189	1.1013	0.0001	00000	
<u>-</u> ,	DICHLOROETHANE	1300	30,4200	1330.4200	511.7000	0.0048	00000	
IKANS-1,2- DIC	DICALOROE I AENC	006	23,4000	923.4000	7.9603	0.0409	0.0000	
7.6	KLOKOFLUOKOME I MANG	320	124.8000	444.8000	0.0445	0.0031	0.0000	
		160	78,0000	238.0000	24.7917	0.0377	0.0000	
MIO -7'7	DIMEINILYMBNOL	184	173,4200	357,4200	0.1625	0.0029	0.000	
	EINTLBENZENE	140000	455000,0000	1855000,0000	12366.6667	1750.0000	140.0000	
NOX!	z (0	0.000	0.0000	0000	0.000	0.0000	
LEAD	0.000	13460	17498,0000	30958.0000	123832,0000	19.2286	33.6500	
AAE PUR	MANGANGSE MOTUSTENE CHI OBIOF	620	8.8660	628.8660	157.2165	0.0016	00000	
- G 42	MEINTLENE CALONINE	0	0.0000	0000.0	0000.0	0.000	0000.0	
7 7	MATERIAL	174	56.5500	230.5500	0.8867	0.0791	0.4350	
	MICKEL	0	00000	0000.0	0.000	0.000	00000	
1	NI INOPIEROL	0	0.000	0000.0	0.000	0000	0000.0	•
֓֞֞֜֞֜֞֜֞֜֜֞֜֞֜֜֜֜֜֜֜֓֓֓֓֓֓֓֓֜֜֜֜֜֓֓֓֓֓֜֜֜֜֡֓֡֓֜֜֜֡֓֓֜֜֜֡֡֓֡	PENIACHLOROPHENOL		0,000	0000	0.000	0.0000	0.000	
֝֞֞֞֝֞֞֞֝֞֝֞֝֞֝֞֝֞֝֞֞֝֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞	PEI HIDRO (ASSUME JE-4)	10000	0000	10000.0000	161.5509	0000	0000.0	
ב ב		087	2.6520	482.6520	0.0710	0,0240	0.000	
= -	THE NOL	28	0.1820	28.1820	1.4091	11.6667	0000.0	
	SILVER	9.71	0.3749	14.9749	1.4975	0.0008	0.000	
2,2- 1E	TETRACHLOROETHANE	2.8	1,1154	8.9154	2,2289	0.0007	0.000	
u ?	I KACHLONOE I IILIKI	1300	350.6750	1650.6750	68.7781	0.0371	0.000	
<u> </u>		7 21	0.7404	14.1404	0.3367	0.0001	0.0000	
<u>×</u> ;	INICALOROE HENE		0000	0,000	0000.0	0,000	0000.0	
¥ :	IKICHLUKUFLUUKUNE I NAME	° 27	0.9828	42.9828	0.0430	0.0001	0.000	
17	VINYL CHLOKIDE	027	436.8000	856.8000	53.5500	0.0156	0.000	
XYLEN	XYLENES	210	682,5000	892.5000	0.0893	0.5833	0.0525	
17		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1		100000000000000000000000000000000000000	
	$1 7 = (col \ 2) \times (2 \ L/dav)$		S	SUMS =	151997.3191	1854.1355	2,01.671	
5 5	$8 = (col 2) \times (col 6) \times$	(0.0065 kg/day)		LOG OF SUMS =	5.1818	3.2681	1562.2	
20	9 = (col 7) +							
Col	1 10 = (col 9) / (col 3)							
Col	11 = (col 2) /	•						
20	(12 = (col 2) / (col 5)							

TABLE P-2
SWLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

NOI		280	7	. 52	75	000	20	200	210	069	240	14	7.2	•	120	150	200	200	001	200	•	4:4	450	001	,	780	120		1.7	2	7.9	55	83	17	74	7.2	320	1000	20.				
6 BIOACCUMULATION FACTOR (L/KG)																																											
5 TERRESTRIAL EFFECTS BENCHMARK (ug/L)	2000	100	3			•	10	100	200										2000	2000	2000			200		37300												0000	0007				
4 AQUATIC EFFECTS BENCHMARK EFF (ug/L)		072	000	00041	2300	1700	99.0	16	9.5	1120	2850	118000	125000	00011	0001	00176	0212	32000	007	34		193000	2300	1100	8280	55	28800		10000	1.2	9320	5280	17500	00057	11000	781000	13500	0000	081				
3 HEALTH EFFECTS A BENCHMARK (ug/day)	~	,	40.U	c1.0	30	10000	20	0.016	2000	097	097	ð.	2 , 5	0.7	911	00001	9.6	2200	150	100	0.25	4	280	560	0.7	280	13	61.9	0089	50	10	4	5,4	C7	; =	0001	0001	0 000	10000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
2 CONCENTRATION 1 (ug/L)	0200	9270	32	518		9	99	22	; C	37									00655	16	7570	7		53	12	. ~	•	2400		•					011	001			077	(0,0065 kg/day)			
1 CONTAMINANT NAME SUI E SIBEACE MATER CONTAMINANT HAZARD		ALUMINUM	ARSENIC	BARIUM	BENZENE	BILTYL BENZYL PHTHAL ATE	CANATINA	CAURIUM	CHROMIUM	COPPER		DICHLOROBENZENE	DICHLOROETHANE			DIETHYLPHTHALATE			I BON	- E- B- D	MANCANERE	METUVI ENE CHI ORINE	MADUTUAL CITCUITS	NICKEL			PENIACHCONOFIENCE		1	rackor.		1EIKACHLUKUEII	1E I KACHLUKUE I HENE	TOLUENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE .	XYLENES	ZINC	Col $7 = (\text{col } 2) \times (2 \text{ L/day})$	6 = (col 7) + (col 9) = 6	10 = (col 9) / (col	col 11 = (col 2) / (col 4)
SAJAIIS JINS											1,4-	1,3-	1,1	TRANS-1,2-	•		2.4-								`	3					•	1,1,2,2-											

TABLE P-2 (CONTINUED)
SWLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

HILLY HOLOGOBEHENE HILL COLOGO 185540, 0000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 00000 0, 0	F SURFA	T CONTAMINANT NAME SULF SURFACE WATER CONTAMINANT HAZARD	7 DRINKING WATER INTAKE (ug/day)	8 F000 INTAKE (ug/day)	9 TOTAL INTAKE (ug/day)	10 HEALTH HAZARD QUOTIENT	11 AQUATIC HAZARD QUOTIENT	12 TERRESTRIAL HAZARD QUOTIENT
Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market M		ALIMATAIN	07581	0000	18540,0000	6180.0000	0.000	1.8540
13.4680 1046, 4690 6996, 4533 0.0357		APPENIE	79	58.2400	122,2400	3056,0000	0.0889	0.3200
17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.17 17.1		BARIUM	1036	13,4680	1049.4680	6996.4533	0.0357	0.000
12 25.740 37.7400 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.0035 0.00		BENZENE	0	00000	0.000	0,000	0000.0	0,000
CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT CONTRICT		BUTYLBENZYLPHTHALATE	12	. 25.7400	37.7400	0,0038	0.0035	0.000
COPPER 23, 6000 72, 6000 4, 7375 1,375 1,375 COPPER 64 4, 28, 6000 10,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,000		CADMIUM	132	21.4500	153,4500	7.6725	100.0000	9.6000
COPPER 64 43.6800 107.6800 0.0538 3.783 DICHLORGEHERE 0 0.0000 0.0000 0.0000 0.0000 0.0000 DIFFINITY 0 0.0000 0.0000 0.0000 0.0000 0.0000 DIFFINITY 0 0.0000 0.0000 0.0000 0.0000 0.0000 DIFFINITY 0 0.0000 0.0000 0.0000 0.0000 0.0000 NAMEDIATE 0 0.0000 0.0000 0.0000 0.0000 0.0000		CHROMIUM	77	28.6000	72.6000	4537.5000	1.3750	0.2200
District Chicage Fixed District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage District Chicage Distr		COPPER	79	43.6800	107,6800	0.0538	3.4783	0.1600
DICKLORGENEZENE 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000	1.4-		0	0.000	00000	0.000	0.000	0.000
Dictior Decethane	, <u>,</u>		0	0.000	0.000	00000	0.000	0.000
DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE DICHIORGETHERE	-	DICHLOROETHANE	0	00000	0.000	0.000	0.000	0000.0
DICTHICROFILUROMETHANE 0 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,00	IS-1,2-		0	0.000	0.000	0000	0.000	0.000
DIETHYLPHTRALATE 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0	<u>.</u>		0	00000	0.000	0000.0	0000.0	0.000
DIMETHYLPHENOL		DIETHYLPHTHALATE	0	0.000	00000	0.000	0000.0	0.000
Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure F	2.4-		0	00000	0.000	0000	0000.0	00000
Items	•		0	0.000	0,000	0.000	0.000	0.000
LEAD 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.140 15.040 15.040 15.040 15.040 15.040 15.040 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.		IRON	89800	29185.0000	118985.0000	793.2333	112.2500	8.9800
MANGANGESE 15140 0.0000 15140,0000 60560.0000 0.0000		LEAD	32	31.2000	63.2000	0.6320	0.4706	0.0032
HETHYLENE CHLORIDE		MANGANESE	15140	0.000	15140.0000	0000.09509	0000.0	1.5140
NEW PRICE 0 0,0000		METHYLENE CHLORIDE	7	0.0572	4.0572	1.0143	0.000	0.0000
HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND HITROPHEND		NAPHTHALENE	0	0.000	0.000	0.0000	0.000	0.0000
Name		NICKEL	106	34.4500	140.4500	0.5402	0.0482	0.000
PENTACHLOROPHENDL 14 35,4900 49,4900 0.1768 0.1273 PET HYDRO (ASSUME JP-4) PET HYDRO (ASSUME MOTOR OLL) PET HYDRO (ASSUME MOTOR OLL) PHENOL SILVER SILVER SILVER SILVER SILVER TRICHLOROFTHENE 0 0.0000 0.0000 0.0000 0.0000 TOWNOL CHONDE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTHENE TRICHLOROFTH	-7		54	0.000	24.0000	34.2857	0.0014	0.000
PET HYDRO (ASSUME JP-4) PET HYDRO (ASSUME JP-4) PET HYDRO (ASSUME MOTOR OLL) PET HYDRO (ASSUME MOTOR OLL) PET HYDRO (ASSUME MOTOR OLL) PET HYDRO (ASSUME MOTOR OLL) PET HYDRO (ASSUME MOTOR OLL) 18 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0		PENTACHLOROPHENOL	14	35.4900	49.4900	0.1768	0.1273	0.0002
PET HYDRO (ASSUME MOTOR OLL) 4800 0.0000 40000 400000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000			0	0.0000	0,000	0.0000	0,000	0,000
PHENOL SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SI			4800	0.0000	4800.0000	77.3444	0,000	0,000
STIVER Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column Column C		PHENOL	82 0	0.090	0000	7300.0	00000	000.0
TETRACHLORGE HANE TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 00000 TO 0000			> 6	0,000	0000 0	0000	0000	0000
MACHUROCETHENE UENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROETHENE CHLOROET	1,2,2		-	0,000	0000	0000	0000 0	0.0000
CHLOROETHENE CHLOROFTHENE CHLOROFTHENE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROM CHLOROFLUOROM CHLOROFLUOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM CHLOROM C		TELEMENT ORDELHENE	-	0000	0000	0000.0	0.000	0000
CHLOROFLUCKOEINENE CHLOROFLUOROMETHANE CHLOROFLUOROMETHANE 0 0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.		TOLUENE	.	0000	0.000	0.000	0000"0	0,000
FIL CHLORIDE TO 0,0000 0,0000 0,0000 ENES TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,0000 0,0000 0,0000 TO 0,000 0,0000 0,0000 TO 0,000 0,0000 0,0000 TO 0,000 0,0000 0,0000 TO 0,000 0,0000 0,0000 TO 0,000 0,0000 0,0000 TO 0,000 0,0000 0,0000 TO 0,000 0,0000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,0000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,000 0,000 TO 0,00		TRICHLOROGINENE	002	72 1500	372,1500	33,8318	0.0136	0.000
ENES ENES ENES ENES ENES C C C C C C C C C C C C C		TRICALOROFLOOROME INVAL	2	0.000	0.000	0000	0.000	0.000
C 2860.0000 3740.0000 2.4444 C = (col 2) x (2 L/day) S = (col 2) x (col 6) x (0.0065 kg/day) S = (col 7) + (col 8) 10 = (col 9) / (col 3) 11 = (col 2) / (col 4) 12 = (col 2) / (col 5) 13 = (col 2) / (col 4)		VINIT CALORIDE		0.000	0.000	0000	0,000	0000.0
7 = (col 2) x (2 L/day) 8 = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x (0.0065 kg/day) 10 = (col 7) + (col 8) 11 = (col 9) / (col 3) 12 = (col 2) / (col 5)		ZINC	880	2860.0000	3740,0000	0.3740	2.4444	0.2200
7 = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x (0.0065 kg/day) 10 = (col 7) + (col 8) 11 = (col 2) / (col 4) 12 = (col 2) / (col 5)							0222 066	70 1366
8 = (col 2) x (col b) x (0.0065 kg/day) 9 = (col 7) + (col 8) 10 = (col 9) / (col 3) 11 = (col 2) / (col 4) 12 = (col 2) / (col 5)		7 = (col 2) x		й <u>:</u>	י בי	0016.4.3100	7 3431	1.3040
7 = (col 7) / 10 = (col 9) / 11 = (col 2) / 12 = (col 2) /		$8 = (col 2) \times 0 = 0$		3	STOS	5010.1		
11 = (col 2) / 12 = (col 2) / 12		10 = (col 9) /						
12 = (col 2) / (col		11 = (col 2) /						
		2) / (col						

Fire Training Area-2 (FTA-2) Defense Priority Model List of Comments Used to Justify Scoring

Item <u>Number</u>	Comment
1.	Contaminants have been detected in the surface water. These include toluene, petroleum hydrocarbons, elevated metal concentrations and methylene chloride. Analytical results were above background. Score as 100.
11.	Surface effluent (fuels and water) are drained off the FTA-2 site into a wooded area. There is not an oil-water separator at the site. The FTA-2 consists of an earthen bern around the pit. Score as 1.
13.	Petroleum hydrocarbons were detected at elevated concentrations in the groundwater. Score as 100.
21.	The fire training area is unlined. Earthen material serves as the containment system. Score as 1.
23-42.	Scoring of these questions is based on calculated sums and logs presented on the hazard scoring tables detailing the contaminants detected at the FTA-2.
43.	No drinking water is obtained from surface water sources within three miles of the site. Therefore, no population would be affected. Score as 0.
44.	Surface water drains to the stormwater drainage system and is discharged to the Clinton River. It is greater than three miles from the discharge point to the public drinking water intake. Score as 2.
45.	Population is estimated to be 1-25. Population consists of fire fighters using the site, the base personnel using the engine test site, ground maintenance people working in area, and the police driving school using the old taxiway next to the site. These people are considered to be a daytime on-base population. Score as 1.
46.	Distance to nearest base boundary is approximately 800 feet. Score as 3.

RFACE WATER PATHWAYS Served releases	(c:	or rc.		Multiplier	Product (score x mult.)	Max. score
Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2.	0	(100)	ı	100	100
athway characteristics .						
. Distance to nearest surface water	0	1 2	3	4		12
. Net precipitation	0	1 2	3	1		3
Surface erosion potential	0	1 2	3	4		12
. Rainfall intensity	0	1 2	3	4		12
Surface permeability	0	1 2	3	3		9
. Sum of items 2 through 6						48
Normalized score (multiply item 7 x 100/48)						
. Flooding potential	0	1 2	3	8		24
 Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 10 	20 .				100	
1. Waste containment effectiveness factor (Table 2)					1.0	
2. Final score for surface water pathways (multiply	item	10	x it	em 11)	100	

COMMENTS ON SURFACE WATER PATHWAYS

All comments are presented on the typed pages following the scoring sheets for the FTA-2

Prepared by Millander 9 Dec 88 Checked by RHG 12/1/88

Site identification: FTA-2

GROUNDWATER PATHWAYS

	erved releases	Score (circle one)	Multiplier	Product (score x mult.)	Max. score
13.	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	0 (100)	1	100	100
Pati	way characteristics				
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0 1 2 3	9		27
15.	Permeability of the unsaturated zone	0 1 2 3	5		15
16.		0 1 2 3	5		15
17.	Sum of items 14 through 16				57
18.	Normalized score (multiply item 17 x 100/57)				
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water table				
		0 1 2 3	5		15
20.	Adjusted pathways score. If item 13 is 100, enter 1 If item 13 is 0, enter sum of items 18 and 19. If sum exceeds 100, enter 100.	00.		100	
21.	Waste containment effectiveness factor (Table 5)		·	100 1.0	
22.	Final score for groundwater pathways (multiply item	20 x item 21		100	

COMMENTS ON GROUNDWATER PATHWAYS

Site .	identification:	FTA-	2
--------	-----------------	------	---

Contaminant	HAZARD		SURFACE	WATER
-------------	--------	--	---------	-------

If contaminants have been detected in surface water (score of 100 in item 1), complete items 23 through 28. If contaminants have not been detected (score of 0 in item 1), complete items 29 through 32. Attach Hazard Worksheet or list of contaminants, as appropriate.

23	Sum of human had to the	Score (circle one)	Result	Logarithm (base 10)
20	. Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	-		
24	Harrier L. Anna A.	122	29 <u>98.20</u> 39	<u>5.089</u> 9
24.	. Human health hazard score	0 1 2 4 6)	
25.	nearth health hazard score (multiply item 24 x 100/5)	· ·	100	
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		4. <u>1181</u>	2 057/
27.	Ecological hazard score	, * *	T. 1101	<u>2.0574</u>
28.		0 1 2 3 4 5 6	02 222	
			<u>83.33</u> 3	
29.	Maximum human health hazard index			
		0 1 2 3 4 5 6 7 8 9	C •	
30.	Normalized human health hazard score (multiply item 29 x 100/9)	J U / 0 9	Contamir	ment:
31.	Maximum ecological hazard index	01246	Contamin	ant ·
32.	Normalized ecological hazard score (multiply item 31 x 100/6)			
	2-5			
ve n	taminants have been detected in groundwater (score of 100 in item 13) ot been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate.), complete it 2. Attach Ha	ems 33 throug zard Workshe	sh 38. If contam et or list of
33.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)			
34	Human haslat t	1210	0 <u>7.659</u> 4	<u>4.083</u> 1
	Human health hazard score	0 1 2 4(6)		
35.	Normalized human health hazard score (multiply item 34 x 100/6)		100	
36.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		100	
			<u>2.389</u> 8	<u>0.378</u> 4
	Ecological hazard score	0 1 2 3		
8.	Normalized ecological hazard score (multiply item 37 x 100/6)	4 5 6	50	
9.	Maximum human health hazard index			
		0 1 2 3 4		
0. 1	Normalized home bush	56789	Contamina	nt:
	Normalized human health hazard score (multiply item 39 $ imes$ 100/9)			
1. !	Maximum ecological hazard index			
		01246	Contamina	 -
2. 1	Normalized ecological hazard score (multiply item 41 x 100/6)		-01.0441141	nt:

Site identification: FTA-2

HUM	AN HEALTH RECEPTORS SURFACE WATER PATHWAY			
	•	Score (circle one)	Multiplier	Product Max. (score x score mult.)
43.	Population that obtains drinking water from potentially affected surface water body(ies) within 3 miles (4.8 km) downstream	0 1 2 3	3	
44.	Water use of nearest surface water body(ies)	0 123	3	6g
45.	Population within 1000 ft (305 m) of the site	0 1 2 3	1	_13
46.	Distance to the nearest installation boundary	0 1 2(3)	1	<u>3</u> 3
47.	Land use and/or zoning within 1 mile (1.6 km) of the site	0 1 2(3)	1	<u>3</u> 3
48.	Sum of items 43 through 47			<u>13</u> 27
49.	Final score for human health receptors on surface water pathways (multiply item 48 x 100/27)		48.148	
ECOL	OGICAL RECEPTORS SURFACE WATER PATHWAYS			
50.	Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site	0(1)2 3	5	515
51.	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	<u> </u>
52.	Sum of items 50 and 51			<u> </u>
53.	Final score for ecological receptors on surface water pathways (multiply item $52 \times 100/18$)			27.778

COMMENTS ON SURFACE WATER RECEPTORS

Site identification: FTA-2

HUMAN HE	ALTH RECEPTORS GROUNDWATER PATHWAY			
	.	Score (circle one)	Multiplier	Product Max. (score x score mult.)
54.	Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s)	0 1 2 3	9	
55.	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	0 1 2 3	5	0 15
56.	Groundwater use of the uppermost aquifer	①1 2 3	4	012
57.	Population potentially at risk from groundwater contamination	06 9 12 18 24 27 36	1	0
58.	Population within 1000 ft (305 m) of the site	0(1)2 3	1	1 3
59.	Distance to the nearest installation boundary	0 1 2(3)	1	3 3
60.	Sum of items 54 through 59			4 96
61.	Final score for human health receptors on groundwater pathways (multiply item 60 x 100/96)			4.167
ECOLOGICA	L RECEPTORS GROUNDWATER PATEWAYS			
62.	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	0 123	3	<u>6</u> 9
63.	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0 1 2 3	3	<u>3</u> 9
64.	Presence of "critical environments" within 1 mile (1.6 km) of the site	0 з	1.	з
65.	Sum of items 62 through 64			9 21
65.	Final score for ecological receptors on groundwater pathways (multiply item $65 \times 100/21$)			42.857

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

Site identification: FTA-2

SCORING SUMMARY SHEET

		Pa	thways score	Contaminant hazard score	Rec	ceptors score	Overall score
67.	Surface water/human health scores	(100 x	100 item 25/30	x	$\frac{48.148}{\text{item }49}$) /10,000 =	48.148
68.	Surface water/ecological scores	(100 x	83.333 item 28/32	x	$\frac{27.778}{\text{item } 53}$) /10,000 =	23.148
69.	Groundwater/human health scores	(100 x	100 item 35/40	x	$\frac{4.167}{\text{item } 61}$) /10,000 =	4.167
70.	Groundwater/ecological scores	(100 x	50 item 38/42	x	$\frac{42.857}{\text{item } 66}) /10,000 =$	21.429

OVERALL SITE SCORE:

71.
$$\left(\frac{48.148}{\text{item }67}\right)^2 \times 5 + \left(\frac{23.148}{\text{item }68}\right)^2 + \left(\frac{4.167}{\text{item }69}\right)^2 \times 5 + \left(\frac{21.429}{\text{item }70}\right)^2 = \frac{12672.999}{12872.999}$$

72. Overall site score
$$\frac{\sqrt{12672.999}}{\text{item 71}}$$
 / 3.464 = $\frac{32.498}{}$ ≈ 32

TABLE P-3 (continued)
FTA2 HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

12 TERRESTRIAL HAZARD QUOTIENT	0.0000	0.000	0.000	0.000	0.000	0000.0	0.000	0.000	0.000	0.000	0.000	0,000	0000	0.0298	0.000	2.0750	0.000	0.000	0.2850	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.3898	0.3784				
11 AQUATIC TE HAZARD QUOTIENT Q	0.000	0.0217	0.0000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0000	0.3725	0,000	1.1857	0.000	0.000	0.0518	0.000	0.000	0.0347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.6665	0.2218	•			
10 HEALTH HAZARD QUOTIENT	0.0000	4254.6000	0.000	0.000	0000	00000	0.000	00000	0.0000	0.0000	00000	0.000	0000	2.6323	0.000	7636.0000	0.000	0.000	0.5810	0.000	0.000	213.8462	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	00000	0.000	0.000	12107,6594	4.0831				
9 TOTAL INTAKE (ug/day)	0.000	638.1900	0.0000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.0000	0.000	00000	0000	394.8500	0000	1909.0000	00000	00000	151.0500	0.000	0.000	2780.0000	0.000	0.000	0.000	0000.0	0.000	0.000	0.000	0.000	0.000	0.000	000000	4S =	LOG OF SUMS =				•
8 FOOD INTAKE (ug/day)	0.0000	8.1900	0.0000	0,000	0.000	0.000	00000	0000	0.000	0.0000	0.000	0,000	0000	96.8500	00000	1079,0000	0.000	0.000	37.0500	0.0000	0.000	780.0000	0.0000	0.000	0.0000	0.000	0.000	0.0000	0.000	0.0000	0.000	0.000	0.000	SMOS	100				
7 DRINKING WATER INTAKE (Ug/day)	0	630	o c	0	0	0	0	0 (0 (0 •	> •	> C	· c	298	0	830	0	0	114	0	0	2000	0	0	0	0	0	0	0	0	0	0	0		(0.0065 kg/day)				
1 CONTAMINANT NAME FTAZ GROUNDWATER CONTAMINANT HAZARD	ALUMINUM ARSENIC	BARIUM	BENZENE RITY! RENZY! PHTHA! ATF	CADMIUM	CHROMIUM	COPPER		1,3- DICHLOROBENZENE		TRANS-1, Z- DICHLOROETHENE	DICHLORUFLUOROME I HANE		E, 4 DINTERNATION FIRST BENZENE	IRON	LEAD	MANGANESE	METHYLENE CHLORIDE	NAPHTHALENE	NICKEL	4- NITROPHENOL		PET HYDRO (ASSUME JP-4)	PET HYDRO (ASSUME MOTOR OIL)	PHENOL	SILVER	,1,2,2- TETRACHLOROETHANE		TOLUENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	XYLENES	ZINC	Col 7 = (col 2) x (2 L/day)	2) x (col 6) x	9 = (col 7) + (col 8)	/ (6	= (col 2) / (col	Col 12 = (col 2) / (col 5)
FTA2										TRANS																<u>-</u>													

TABLE P-3 FTA2 HAZARD WORKSHEET IRP STAGE 2 SELFRIDGE, MICHIGAN

. NOUNI PO			MEALIN EFFECTS	AQUATIC EFFECTS	TERRESTRIAL	BIOACCOMOLA! ION
2	NAME FTAZ GROUNDWATER CONTAMINANT HAZARD	(ng/L)	BENCHMARK (ug/day)	BENCHMARK (ug/L)	EFFECTS BENCHMARK (ug/L)	FACTOR (L/KG)
Y V	ALUMINUM	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M	1	2000	1 1 1 1 1 1 1 1 1 1
AR	ARSENIC		0.04	360	100	280
BA	BARIUM	315	0.15	14500		7
BE	BENZENE		30	5300		32
90	BUTYLBENZYLPHTHALATE		10000	1700		099
CAL			20	99.0	10	20
3	CHROMIUM		0.016	16		200
Ö	COPPER		2000	6.0		210
	ui obosenzene		2077			27
7,4	DICHLOROBENZENE		097	0215		040
1	ONLOROBERICA ONLOROSETURANE		9	000811		2
	DICKLORUE I HANE		<u>.</u>	118000		* r
IKANS-1,2- DIC	DICHLOROEIRENE		9.7	135000		7.7
ā	DICHLOROFLUOROMETHANE		116	11000		×
	DIETHYLPHTHALATE		10000	52100		120
2,4- 011	DIMETHYLPHENOL		9.6	2120		150
ET	ETHYLBENZENE		2200	32000		280
IRON	N.	149	150	007		100
LEAD	9		100	34	2000	300
¥	MANGANESE	415	0.25	350		700
뿦	METHYLENE CHLORIDE		4	193000		7.7
¥	NAPHTHALENE		280	2300		430
	NICKEL	57	260	1100	200	100
4- NI	NI TROPHENDL		0.7	8280		
PE	덛		280	55	37300	780
PE	UNE JP-4)	1000	13	28800		120
PE	PET HYDRO (ASSUME MOTOR OIL)		61.9			
F	PHENOL		0089	10000		1.7
-	SILVER		20	1.2		2
1,2,2- TE	TETRACHLOROETHANE	•	10	9320		7.9
TE	TETRACHLOROETHENE		4	. 5280		77
Õ	TOLUENE		54	17500		83
2	TRICHLOROETHENE		75	45000		17
2	TRICHLOROFLUOROMETHANE		=	11000		7/2
5	VINYL CHLORIDE		1000	381000		7.2
X	XYLENES		16	13500		320
ZINC	25		10000	180	2000	1000
; 3						
3 3	'\ = (col 2) x (2 L/day) 8 = (col 2) x (col 6) x) x (0 0045 kg/day)				
5	103) + (2 103) = 6					
3 3	10 = (col 9) / (col					
100	11 = (col 2) / (col					
00	12 = (col 2) / (col					

TABLE P-4 FTA2 HAZARO WORKSHEET IRP STAGE 2 SELFRIDGE, MICHIGAN

6 BIOACCUMULATION ARK FACTOR		5000	100 280	•	. 55	099	10 50		200 210		140	14	7.2	€0	120	150				500 400	4.4		200 100		37300 780	120	,	1.7	2	6.7	. 44	83	17	7.4	7.2	. 320	2000 1000					
5 TERRESTRIAL EFFECTS BENCHMARK	(ng/L)	205										_	_			_						٠						_			_	_					٠					
4 AQUATIC EFFECTS BENCHMARK	(ng/L)	1	360	14500	5300	1700	99.0	16	9.2	1120	2850	118000	135000	11000	52100	2120	32000	007	34	350	193000	2300	1100	8280	55	28800		10000	1.2	9320	5280	17500	45000	11000	381000	13500	180					
3 HEALTH EFFECTS BENCHMARK	(ug/day)	M	0.04	0.15	30	10000	20	0.016	2000	097	097	15	2.6	116	10000	9.6	2200	150	100	0.25	7	280	560	7.0	280	t	61.9	0899	20	9	7	54	75	=	1000	16	10000					
2 CONCENTRATION	(ng/L)	0776	92	163					34									34800	170	9050	390		17			2000					;	5 7					185	 V F 1 3700 07	(U.UUO) kg/day)			
1 CONTAMINANT NAME	FTAZ SURFACE WATER CONTAMINANT HAZARD	ALUMINUM	ARSENIC	BARIUM	BENZENE	BUTYLBENZYLPHTHALATE	CADMIUM	CHROMIUM	COPPER	DICHLOROBENZENE	DICHLOROBEN	DICHLOROETH		DICHLOROFLUOROMETHANE	DIETHYLPHTH	DIMETHYLPHE	ETHYLBENZENE	IRON	LEAD		METHYLENE CHLORIDE	NAPHTHALENE	NICKEL	NITROPHENOL			PET HYDRO (ASSUME MOTOR OIL)	PRENOL	SILVER	TETRACHLOROETHANE	TETRACHLOROETHENE	TOLUENE	TRICHLOROETHENE		VINYL CHLORIDE	XYLENES	ZINC	× (2 100) =	102) ¥ (7 103) = 0-	10 = (col 0) / (col	1001 / 1001 01	() (00) 11 = (00) 11
	FTA2 SURFA									1,4-	1,3-	1,1	TRANS-1,2-		,	5,4-								- 7					,	1,1,2,2-												

TABLE P-4 (CONTINUED) FTA2 HAZARD WORKSHEET IRP STAGE 2 SELFRIDGE, MICHIGAN

CON	CONTAMINANT	DRINKING	8 000	9 TOTAL	10 HEALTH	11 AQUATIC	12 TERRESTRIAL
NAME FTA2 SURFACE WATER CONTAMINANT HAZARD	NAME TAMINANT HAZARD	walek iniake (ug/day)	INTAKE (ug/day)	INTAKE (ug/day)	HAZARD QUOTIENT	HAZARD	HAZARD
ALUMINUM		18880	0.000	18880,0000	6293.3333	0.000	1.8880
ARSENIC		52	47.3200	99.3200	2483.0000	0.0722	0.2600
BARIUM		326	4.2380	330,2380	2201.5867	0.0112	00000
BENZENE		0	0.000	0.000	0.000	0.000	0,000
BUTYLBENZYLPHTHALATE	PHTHALATE	0	0.000	0000	0.000	0.000	00000
CADMIUM		0	0.000	0.000	0.000	0.000	0.000
CHROMIUM		0	0.000	0,0000	0.000	0.000	00000
		89	46.4100	114.4100	0.0572	3.6957	0.1700
1,4- DICHLOROBENZENE	ZENE	0	0.000	0,000	0.000	0.0000	0.000
	ZENE	0	0.000	0.000	0.0000	0.000	0.000
	ANE	0	0.000	0.000	00000	00000	0.000
	ENE	0	0.000	0.0000	0.000	0.000	000000
DICHLOROFLUOROMETHANE	OROMETHANE	0	0.000	0.000	0000.0	0.000	0.000
	ALATE	0	0.000	0.000	0.000	0.000	0.000
2,4- DIMETHYLPHENOL	1 0,	0	0.000	0.000	0000.0	0.000	0.000
ETHYLBENZENE	ш	0	0.000	0000.0	0.000	0.000	0.000
RON		00969	22620.0000	92220.0000	614.8000	87.0000	9.9600
LEAD		340	331.5000	671.5000	6.7150	2.0000	0.0340
MANGANESE	1	12040	15652.0000	27692.0000	110768.0000	17.2000	30.1000
METHYLENE CHLORIDE	HLOR IDE	780	11.1540	791.1540	197.7885	0.0020	0.0000
NAPHIHALENE		0 (0.0000	0.0000	0.000	0.0000	00000
		82	26.6500	108.6500	0.4179	0.0373	0.2050
4- NI KOPHENOL		o ,	0.0000	0.0000	0.000	0,0000	0000.0
PENTACHLOROPHENOL	PHENOL	0	0.0000	0.000	0.000	00000	0.000
PEI HYDKO (.	PEI HTDRO (ASSUME JP-4)	4000	0000.0951	5560.0000	427.6923	7690.0	0.000
PET HYDRO (.	PEI HYDRO (ASSUME MOTOR OIL)	-	0.0000	0.0000	00000	00000	0.0000
FRENCE		> •	0.000	0.0000	0,000	0.000	0.0000
		-	0.0000	0.000	0.0000	0.0000	0.000
I, I, Z, Z- IEIKACHLUKUEIHANE	LIMANE	ɔ (0.0000	0.000	0000.0	0000.	0.000
TETRACHLOROETHENE	ETHENE	0 ;	0.0000	0.000	0.0000	0.000	0.000
TOLUENE		88	23.7380	111.7380	4.6558	0.0025	0.000
TRICHLOROETHENE	HENE	0	0.000	0.000	0.000	0.000	0.000
TRICHLOROFLUOROMETHANE	JOROMETHANE	0	0.000	0.000	0.000	0.000	0.000
VINYL CHLORIDE	10E	0	0.000	0.000	0.000	0.000	0.000
XYLENES.		0	0.000	0.000	0.000	0.000	0.000
ZINC		370	1202.5000	1572.5000	0.1573	1.0278	0.0925
- /	ລ		ns		122998.2039	114.1181	39.7095
Col 10 = (Col Col 10 = (Col Col Col Col Col Col Col Col Col Col	of 2) x (col 6) x of 7) + (col 8) of 9) / (col 3)	(U.UU65 kg/day)	07	LOG OF SUMS = .	5.0899	2.0574	1.5989
12:	2) / (col						

Fire Training Area-1 (FTA-1) Defense Priority Model List of Comments Used to Justify Scoring

Item <u>Number</u>	<u>Comment</u>
1.	No surface water samples were collected at this site. Score as 0 and proceed to questions #2-9.
2.	Closest surface water body is the Clinton River. It is located approximately 1 mile 950 feet to the south. Surface drainage from the site could flow in that direction via drainage ditches and empty into the river. Score as 3.
3.	Net precipitation: It was determined from base weather detachment records that the annual average precipitation received at the base is approximately 28.9 inches. Based on the DPM map the mean annual lake evaporation is 30 inches. Net precipitation would be -1.1 inches. Score as 1.
4.	Characterize soil erosion potential at site as slight. Slopes are less than 2%. The site is not in a depression so it would not be classified as a category one. No visible rills or gullies. Score as 1.
5.	Based on the DPM map, Figure 4, the 1-year 24-hour rainfall is approximately 2 inches for the Selfridge ANGB area. Score as 1.
6.	Estimated surface permeability is based on hydraulic conductivity values for the site. These values are in the range of 10 do 10 cm/sec. Estimate that soils are approximately 15-30% clay. Score as 1.
9.	The FTA-1 site and the base are not defined for flood potential on the insurance flood plain maps. Assume base is protected by dikes and embankments from flooding by Lake St. Clair or the Clinton River. Little to no flood potential. Score as 0.
11.	The former fire training area is covered, but may not be adequately covered. No runoff or runon provisions at the site. Runoff would not be collected and treated. Score as 1.

- 13. Contaminants were detected in the groundwater. Score as 100.
- The FTA-1 area is covered, but not by an engineered cover. No runoff or runoff provisions at the site. No evidence that the site was cleaned up upon its abandonment. Score as 1.
- 23. No surface water samples were collected at this site. Therefore, proceed to answer questions #29-32 in order to score the surface water contaminant hazard.
- Petroleum hydrocarbons are known to be found at 29. the site based on past activity. They were used in fire training exercises and were also detected in the groundwater. The petroleum hydrocarbons human health benchmark equals 13. Log base 10 is The bioaccumulation factor for petroleum hydrocarbons is 120. Log base 10 of this is 2.079. The score was determined from Table 6 in the DPM. Score as 3.
- Determined the ecological hazard index for petroleum hydrocarbons. The aquatic effects benchmark is 28,800 for petroleum hydrocarbons (assume JP-4). Log base 10 of 28,800 is 4.459. The score was determined from Table 7 in the DPM. Score as 1.
- 43. No drinking water is known to be obtained from groundwater or surface water sources within three miles of the site. The city water intake is greater than 3 miles from FTA-1. No surface water would be effected. Score as 0.
- Surface water use of Lake St. Clair and the Clinton River, the nearest surface water bodies, would be for fishing. Possible that water fowl living in these areas would be affected. The city water intake is more than three miles away. Score as 2.
- Population within 1,000 ft. of site would be approximately 26 to 100. These include base people at the guard house by Joy Gate, buildings located north and south of site, ground maintenance people and security working around the site. This figure also included an estimate

of people working in warehouses west of the site. Score as 2.

- The distance to the nearest base boundary is approximately 600 ft. Score as 3.
- 47. Land use within one mile of site is dominantly residential with some commercial warehouses and light industry. Score as 3.
- The downslope area where surface water from the site would travel is the Clinton River. This is in the category of a permanent stream. Score as 1.
- No critical environments are known to occur within one mile of the site. Score as 0.
- No known wells are being used to supply groundwater within one mile of the site. Therefore, no contaminants from the site would be affecting a drinking water source. Also, upward gradients exist at base. Score as 0.
- Groundwater would not reach a surface water body in less than 100 years. Even if the stormwater system intercepted it, the time required is more than 100 years. The closest storm sewer in the direction of groundwater flow (NE) is approximately 1,800 feet away. Based on the calculated groundwater flow velocity, it would take more than 100 years to reach the storm sewer. Thus, no surface water would be effected in less than 100 years. Score as 0.
- No use of groundwater occurs at the FTA-1 site or within one mile. The city supplies drinking water to the based and the surrounding area. Score as 0.
- No known population would be affected because groundwater is not being used at the site or downgradient of it. Surface water is obtained for drinking at an intake greater than three miles from the site. This source would not be affected. Thus, no population is at risk. Score as 0.
- See question 45. Population is considered to be a daytime population. It is estimated to be approximately 26 to 100 people. Score as 2.

- Distance to nearest base boundary is approximately 600 feet. Score as 3.
- 62. See question 55. Based on the fastest travel time it would take more than 100 years. Score as 0.
- of the Clinton River would most likely receive any groundwater from the site. This would be groundwater intercepted by the storm drainage system and discharged to the river. Score as 1.
- No known critical environments occur within one mile of the site. Score as 0.

Site identification: Fire Training Area - 1 (Site 03) - FTA-1

	•					_
SU	RFACE WATER PATHWAYS			•		
	:	Score	Multiplier		Max.	
<u>Ob</u>	served releases	(circle one)		(score x mult.)	SCOTE	
1.	Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2.	0 100	1	0	100	
Pat	hway characteristics					
2.	Distance to nearest surface water	0 1 2(3)	4	12	12	
3.	Net precipitation	0123	1	1	3	
4.	Surface erosion potential	0123	4	4	12	
5.	Rainfall intensity	0123	4	4	12	
6.	Surface permeability	0123	3	3	9	
7.	Sum of items 2 through 6			24	48	
8.	Normalized score (multiply item 7 x 100/48)			_50_		
9.	Flooding potential	0 123	8	0	24	
10.	Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 100).		_50_		
11.	Waste containment effectiveness factor (Table 2)			1.0		
12.	Final score for surface water pathways (multiply it	em 10 x item	n 11)	_50_		

COMMENTS ON SURFACE WATER PATHWAYS

All comments are presented on the typed pages following the scoring sheets for the FTA-1

Prepared by Con D. Clander 9De 88 Checked by RHG 12/9/88

Site identification: FTA-1

GROUNDWATER PATEWAYS

<u>Obs</u>	erved releases	(0	circle one)	Multiplier	Product (score x mult.)	Max. score
13.	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	0	100	1	100	100
Path	way characteristics					
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0	1 2 3	9		27
15.	Permeability of the unsaturated zone	0	1 2 3	5		15
16.	Infiltration potential	0	123	5		15
17.	Sum of items 14 through 16					57
18.	Normalized score (multiply item 17 x 100/57)					
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water					
	table	0 :	1 2 3	5		15
20 .	Adjusted pathways score. If item 13 is 100, enter 1 If item 13 is 0, enter sum of items 18 and 19.	.00				
	If sum exceeds 100, enter 100.				100_	
	Waste containment effectiveness factor (Table 5)				1.0	
22.	Final score for groundwater pathways (multiply item :	20 x	t item 2	1)	100_	

COMMENTS ON GROUNDWATER PATHWAYS

S	i	te	identi	fication	FTA-
---	---	----	--------	----------	------

Contaminant	HAZARD		SURFACE	WATER
-------------	--------	--	---------	-------

If contaminants have been detected in surface water (score of 100 in item 1), complete items 23 through 28. If contaminants have not been detected (score of 0 in item 1), complete items 29 through 32. Attach Hazard Worksheet or list of contaminants, as appropriate.

		Score (circle one)	Result	Logarithm (base 10)
23	. Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	 ,	0	
24.	Human health hazard score	0 1 2 4 6		
25.	Normalized human health hazard score (multiply item 24 x 100/6)			
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)			
27.	Ecological hazard score	0 1 2 3		
28.	Normalized ecological hazard score (multiply item 27 x 100/6)	4 5 6		·
29.	Maximum human health hazard index	0 1 2(3)4		
20		56789	Contami	nant:Petroleum Hydro-
	Normalized human health hazard score (multiply item 29 x 100/9)		<u>33.33</u> 3	carbons
31.	Maximum ecological hazard index	0(1)2 4 6	Contami	nant: Petroleum Hydro-
32.	Normalized ecological hazard score (multiply item 31 x 100/6)		<u>16.66</u> 7	carbons
				**
contan	ntaminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 hinants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard	, complete it 2. Attach Ha	ems 33 thro- zard Worksh	ugh 38. If contaminants
	Worksheet)	798	7 <u>.0287</u>	3.9024
34.	Human health hazard score	0 1 2 4(6)		
35.	Normalized human health hazard score (multiply item 34 x 100/6)		100	
36.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		2.5073	0.3992
37.	Ecological hazard score	0 1 2(3)		
38.	Normalized ecological hazard score (multiply item 37 x 100/6)	4 5 6	50	
39.	Maximum human health hazard index	0 1 2 3 4 5 6 7 8 9	Contamir	nant:
40.	Normalized human health hazard score (multiply item 39 x 100/9)			
41.	Maximum ecological hazard index	01246	Contamin	mant:
42.	Normalized ecological hazard score (multiply item 41 x 100/6)			

Site identification: FTA-1

uman Health Receptors Surface water Pathway	Score (circle one)	<u>Multiplier</u>	Product Max. (score x score mult.)
 Population that obtains drinking water from potentially effected surface water body(ies) within 3 miles (4.8 km) downstream 	0 1 2 3	3	<u>0</u> 9
4. Water use of nearest surface water body(ies)	0 123	3	6g
5. Population within 1000 ft (305 m) of the site	0 123	1	<u>2</u> 3
6. Distance to the nearest installation boundary	0 1 2 3	1	<u>3</u> 3
7. Land use and/or zoning within 1 mile (1.6 km) of the site	0 1 2(3)	1	3з
8. Sum of items 43 through 47			14 27
9. Final score for human health receptors on surface water pathways (multiply item 48 x 100/27)		<u>51.85</u> 2	
COLOGICAL RECEPTORS SURFACE WATER PATHWAYS			
 Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site 	0123	5	515
 Presence of "critical environments" within 1 mile (1.5 km) of the site 	о з	1	<u> </u>
2. Sum of items 50 and 51			518
3. Final score for ecological receptors on surface water pathways (multiply item 52 x 100/18)			27.778

COMMENTS ON SURFACE WATER RECEPTORS

Site identification:FTA-1

HUMAN HE	ALTH RECEPTORS GROUNDWATER PATHWAY			
		Score (circle one)	Multiplier	Product Max. (score x score mult.)
54.	Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s)	0 1 2 3	9	027
55.	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	1 2 3	5	015
56.	Groundwater use of the uppermost aquifer	0 1 2 3	4	012
57.	Population potentially at risk from groundwater contamination .	06 9 12 18 24 27 36	1	036
58.	Population within 1000 ft (305 m) of the site	0 1(2)3	1	2 3
59.	Distance to the nearest installation boundary	0 1 2(3)	1	3
60.	Sum of items 54 through 59			5 96
61.	Final score for human health receptors on groundwater pathways (multiply item 60 x 100/95)			5.208
ECOLOGICA	L RECEPTORS GROUNDWATER PATHWAYS		· · · · · · · · · · · · · · · · · · ·	
62.	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	1 2 3	3	g
63.	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0 2 3	3	
64.	Presence of "critical environments" within 1 mile (1.5 km) of the site	3	1	<u> </u>
65.	Sum of items 62 through 64		•	3 21
56.	Final score for ecological receptors on groundwater pathways (multiply item 65 x 100/21)			14.286

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

Site identification: FTA-1

SCORING SUMMARY SHEET

		Pa	thways score		Contaminant hazard score	Re	ceptors score		Overall score
67.	Surface water/human health scores	(50 item 12	x	33.333 item 25/30	x	51.852)	/10,000 =	8.642
68.	Surface water/ecological scores	(50 2	×	16.667 item 28/32	x	$\frac{27.778}{\text{item 53}}$. /10,000 =	. 2.315
69.	Groundwater/human health scores	(100 item 22	x	100 item 35/40	×	5.208)	/10,000 =	5.208
70.	Groundwater/ecological scores	(100 x	ĸ	50 item 38/42	x	14.286)	/10,000 =	7.143

OVERALL SITE SCORE:

71.
$$\left(\frac{8.642}{\text{item }67}\right)^2 \times 5 + \left(\frac{2.315}{\text{item }68}\right)^2 + \left(\frac{5.208}{\text{item }69}\right)^2 \times 5 + \left(\frac{7.143}{\text{item }70}\right)^2 = \frac{565.418}{}$$

72. Overall site score =
$$\sqrt{\frac{565.4}{\text{item }71}}18/3.464$$
 = $\frac{6.864}{}$ = 7

TABLE P-5
FTA1 HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

FTA1 GRO	CONTAMINANT NAME FTA1 GROUNDUATER CONTAMINANT HAZARD	CONCENTRATION (ug/L)	HEALTH EFFECTS BENCHMARK (ug/day)	AQUATIC EFFECTS BENCHMARK (ug/L)	TERRESTRIAL B EFFECTS BENCHMARK (ug/L)	BIOACCUMULATION FACTOR (L/KG) '
	ALUMINUM		8		2000	
	RABIL	87	0.00	360	100	280
	BENZENE	8	0.13	14500		4
	BUTYLBENZYLPHTHALATE		0000	0055		32
	CADMIUM		00001		(099
	CHDOWILL		07	99.n	P	20
			0.016	16	100	200
-			0007	9.5	200	210
	1,4° DICHLOROBENZENE 1 % DICHLOROBENZENE		097	1120		069
	3- DICALOROBENZENE		094	2850		240
-1 -1 -	1- DICHLORDE HANE		15	118000		14
KANS-1,	2- DICHLOROETHENE		5.6	135000		7.2
	DICHLOROFLUOROMETHANE		116	11000		
			10000	52100		120
5,4-			9.6	2120		150
	ETHYLBENZENE		2200	32000		20.5
	IRON	295	150	700	5000	100
	LEAD		100	35	2000	00 ×
	MANGANESE	372	0.25	350	2002	007
	METHYLENE CHLORIDE			193000		7 7
	NAPHTHALENE		280	2300	•	027
			260	1100	200	100
4	4- NITROPHENOL		7.0	8280		
			280	55	37300	780
		1000	t	28800		120
	PET HYDRO (ASSUME MOTOR OIL)		61.9			
	PHENOL		0089	10000		1.7
•			20	1.2		2
1,1,2,2-	TETRACHLOROETH		10	9320		7.9
	TETRACHLOROETHENE		7	5280		77
	TOLUENE		57	17500		
	TRICHLOROETHENE		75	45000		17
	TRICHLOROFLUOROMETHANE		=	11000		: %
	VINYL CHLORIDE		1000	381000		7.2
	XYLENES		16	13500		3.70
	ZINC	•	10000	180	2000	1000
	$Col f = (col 2) \times (2 L/day)$ $Col B = (col 2) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (col 4) \times (c$	(10 0) 65 Labour				
	$9 = (101 \ 2) \times (101 \ 8) \times 9 = (101 \ 2) \times (101 \ 8)$	(U.UUO> kg/day)				
	10 = (col 9) / (col					
	11 = (col 2) / (col					

TABLE P-5 (continued)
FTA1 HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

TA1 GROUNDL	1 CONTAMINANT NAME FTA1 GROUNDWATER CONTAMINANT HAZARD	7 DRINKING WATER INTAKE (ug/day)	8 FOOD INTAKE (ug/day)	9 TOTAL INTAKE (ug/day)	10 HEALTH HAZARD QUOTIENT	11 AQUATIC HAZARD QUOTIENT	12 TERRESTRIAL HAZARD QUOTIENT
	ALUMINUM	0	0000.0	0.0000	0.000	0.0000	0.0000
_ u	ARSENIC BARTIM	0 136	1.7680	0.0000	918,4533	0.0047	0.000
	BENZENE	0	0.000	0.000	0,000	0000.0	00000
_	BUTYLBENZYLPHTHALATE	0	0.000	0.000	0.000	0000.0	00000
-	CADMIUM	0	0.0000	0.0000	0.000	0.000	0.0000
- '	CHROMIUM	0 0	0.0000	0.0000	0.000	0.0000	0.000
	COPPER	-	0,000	0.000	0,000	0,000	0000
4,4	DICHLOROBENZENE DICHLOROBENZENE		0.000	0.000	0000.0	0.0000	0.000
	DICHLOROETHANE	0	0.000	00000	0000.0	0000.0	0.000
	DICHLOROETHENE	0	0.000	0000.0	0000	0,000	00000
	DICHLOROFLUOROMETHANE	0	0.000	0000	0000.0	0000.0	0.000
_	DIETHYLPHTHALATE	0	0000.0	0000	0.000	0000	0.000
2,4- [DIMETHYLPHENOL	0	0,000	0000.0	0.000	0.000	0.000
	ETHYLBENZENE	0	0.000	0000.0	0.000	0.000	00000
	IRON	1124	365.3000	1489.3000	9.9287	1.4050	0.1124
-	LEAD	0	0000	0000.0	0000.0	0.000	00000
-	MANGANESE	77.7	967.2000	1711.2000	6844.8000	1.0629	1.8600
-	METHYLENE CHLORIDE	0	0.000	0000.0	0.0000	0000	00000
-	NAPHTHALENE	0	0.000	0,000	0.0000	0.000	00000
-	NICKEL	0	0000.0	0000.0	0.0000	0.000	0,0000
7	NITROPHENOL	0	0.000	0.000	0.0000	0.000	0.000
-	PENTACHLOROPHENOL	0	00000	0,000	0.0000	0.0000	00000
_	PET HYDRO (ASSUME JP-4)	2000	780.0000	2780.0000	213.8462	0.0347	00000
-	PET HYDRO (ASSUME MOTOR OIL)	0	0.000	0000.0	00000	0000.0	0.000
-	PHENOL	0	0.000	0000.0	0.000	0.000	0.000
	SILVER	0	0.000	0.0000	0.000	00000	0.000
1,1,2,2-	TETRACHLOROETHANE	•	0.000	0.000	0000	0000.0	0.000
		0	00000	0.000	0.000	0000	0.000
	TOLUENE	0	0,000	0.000	0.000	0.000	0.000
	TRICHLOROETHENE	0	0,000	0000.0	0.000	0.000	0.000
	TRICHLOROFLUOROMETHANE	0	0.000	0.000	0000.0	0000.0	0.000
	VINYL CHLORIDE	0	0.000	0.000	0000.0	0000.0	0.000
	XYLENES	0	0.000	0.000	0000.0	0000.0	0.000
	ZINC	0	0.0000	0.000	0.000	0.000	0.000
	Col 7 = (col 2) x (2 L/day)		120	SUMS =	7987.0282	2.5073	1.9724
	Col 8 = (col 2) x (col 6) x	(0.0065 kg/day)	=	LOG OF SUMS =	3.9024	0.3992	0.2950
	Col $9 = (col 7) + (col 8)$						
	10 = (col 9) /						
	Col 11 = (col 2) / (col 4)					(a)	
	Col 12 = (col 2) / (col 5)						

West Ramp (WRMP) Defense Priority Model List of Comments Used to Justify Scoring

	•
Item <u>Number</u>	Comment
1.	Contaminants were detected in the surface water. These contaminants were petroleum hydrocarbons and 1,4-dichlorobenzene. Score as 100.
11.	The WRMP is the site of a fuel spill. Contaminants may possibly be exposed at the surface. There are no provisions for runoff control or treatment at the site. Surface water is removed from the site by the stormwater drainage system. This water may be contaminated. Score as 1.
13.	Contaminants have been detected in the groundwater. These contaminants include petroleum hydrocarbons and benzene. Score as 100.
21.	No provisions for containment or treatment of contaminated groundwater at the site. Score as 1.
23-42	Scoring of these questions is based on contaminants detected and the hazard scoring tables for the WRMP.
43.	No surface water within three miles of site is used as a drinking water source. The water intake for the city treatment plant is more than 3 miles away. Score as 0.
44.	Surface water is discharged by stormwater drainage system into Lake St. Clair. The public drinking water intake is more than three miles from the site and the point of surface water discharge to the lake. Score as 2.
45.	Population within 1,000 ft. of site is greater than 100. The population includes base personnel working at and around the site, ground maintenance personnel, and base security accessing the site. Score as 3.

- Distance to the nearest base boundary is approximately 1,300 ft. Score as 3.
- 47. Land use within one mile of the site is dominantly residential. Score as 3.
- 50. The closest surface water body that could receive surface water transported contaminants would be Lake St. Clair. This would occur via the stormwater drainage system. Score as 2.
- 51. No known critical environments occur within one mile of the site. Score as 0.
- No wells are known to be used for drinking water downgradient of the site. Water is supplied to local residents and the base by the city. Upward gradients exist at the base. Score as 0.
- Groundwater would be intercepted by the stormwater drainage system. The approximate groundwater travel time to interception is 5-20 years. However, there are no surface water intakes for public drinking water within three miles of the site. Score as 0.
- No known groundwater is being used beneath the site. No wells are known to produce drinking water because water is supplied by the city. Score as 0.
- 57. There is no groundwater being used beneath the site. No population uses groundwater from any area that could potentially be contaminated. Water is supplied by the city. Score as 0.
- A daytime population of more than 100 exists at the site. This population would consist of base personnel, maintenance personnel, and base security working at and around the site. Score as
- Distance to nearest base boundary is approximately 1,300 ft. Score as 3.
- 62. Groundwater would be intercepted by stormwater drainage system. This would occur over a period of approximately 11 to 35 years. Score as 2.
- 63. Groundwater would be discharged to Lake St. Clair. The lake is located less than 3 miles

8000A

downgradient from the site. The lake is a managed area for fishing. Score as 2.

No known critical environments occur within one mile of the site. Score as 0.

A0008 P-41

Site identification: West Ramp (Site 04) - WRMP

SUF	FACE WATER PATHWAYS				
<u>Obs</u>	erved releases	Score (circle one)	Multiplier	Product (score x mult.)	Max. score
1.	Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2.	0. 100	ı	100	100
<u>Pat</u>	hway characteristics				
2.	Distance to nearest surface water	0 1 2 3	4		12
3.	Net precipitation	0 1 2 3	1		3
4.	Surface erosion potential	0 1 2 3	4		12
5.	Rainfall intensity	0 1 2 3	4		12
6.	Surface permeability	0 1 2 3	3		9
7.	Sum of items 2 through 6				48
8.	Normalized score (multiply item 7 x 100/48)				
9.	Flooding potential	0 1 2 3	8		24
10.	Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 100.	·		100	
11.	Waste containment effectiveness factor (Table 2)			1.0	
12.	Final score for surface water pathways (multiply ite	em 10 x item	n 11)	100	

COMMENTS ON SURFACE WATER PATHWAYS

All comments are presented on the typed pages following the scoring sheets for the WRMP

Prepared by Con D. Wander 9Da 88 Checked by Rus 12/9/88

Site identification: WRMP

		Score	Multiplia
•			
GWONDWATER FAIRWAIS	•		
GROUNDWATER PATHWAYS			

<u>Obs</u>	erved releases		rele	Multiplier	Product (score x mult.)	Max. score
13.	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	0	100	1 .	100	100
Path	way characteristics					
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0 1	2 3	9		27
15.	Permeability of the unsaturated zone	0 1	2 3	5		15
16.	Infiltration potential	0 1	2 3	5		15
17.	Sum of items 14 through 16					57
18.	Normalized score (multiply item 17 x 100/57)					•
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water table					
	CADIA	0 1	2 3	5		15
20.	Adjusted pathways score. If item 13 is 100, enter 1 If item 13 is 0, enter sum of items 18 and 19. If sum exceeds 100, enter 100.	00.				
21.			•		100	
	Waste containment effectiveness factor (Table 5)				1.0	
22.	Final score for groundwater pathways (multiply item :	20 x :	item 21	L)	100	

COMMENTS ON GROUNDWATER PATHWAYS

CONTAMINANT HAZARI)	SURFACE	WATER
--------------------	---	---------	-------

If contaminants have been detected i	n surface	water (score	of 100 in	item 1).	complete it	ems 23 through 28	T#
contaminants have not been defected	(score of	0 in item 1)	. complete	items 29	through 32	Attach Hazard W	. 11 Gambabaan 1:
of contaminants, as appropriate.						HOUSELL HEZELU M	orksneet or 1150

		`		
		Score (circle one)	Result	Logarithm (base 10)
23.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)		42 <u>7.805</u> 1	2.6312
24.	Human health hazard score	0 1 2 46)	
25.	Normalized human health hazard score (multiply item 24 x 100/6)		100	
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)	:	<u>0.07</u> 66	<u>-1.115</u> 8
27.	Ecological hazard score	0 2 3		
28.	Normalized ecological hazard score (multiply item 27 x 100/6)		<u>16.6</u> 67	
.9.	Maximum human health hazard index	0 1 2 3 4		
		5 6 7 8 9	Contami	nant:
30.	Normalized human health hazard score (multiply item 29 x 100/9)			
31.	Maximum ecological hazard index	0 1 2 4 6	Contamin	nant:
2.	Normalized ecological hazard score (multiply item 31 x 100/6)			
	staminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 4 minants, as appropriate.	. complete i		
	and appropriate.	2. Attach H	zard Workshe	igh 38. If co set or list of
	and appropriate.	2. Attach H	4 <u>27.83</u> 95	et or list of
34.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	2. Attach H	zzard Workshe	et or list of
	Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score	2. Attach H:	zzard Workshe	et or list of
5.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/5)	2. Attach H:	4 <u>27.83</u> 95	et or list of
5.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/5) Sum of ecological hazard quotients (enter the larger of the sums of	2. Attach H:	4 <u>27.83</u> 95	2.6313
5.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/5) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)	2. Attach H:	4 <u>27.83</u> 95	2.6313
5. 6. 7. 8.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/5) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score	2. Attach H:	4 <u>27.83</u> 95 100 0.0698	2.6313 -1.1560
5. 6. 7. 8.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/5) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6) Maximum human health hazard index	0 1 2 4 6 0 1 2 3 4 5 6	427.8395 100 0.0698 16.667	2.6313 -1.1560
7. 8. 9.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/5) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6) Maximum human health hazard index	0 1 2 4 6 0 1 2 3 4 5 6	427.8395 100 0.0698 16.667 Contamin	2.6313 -1.1560

Site identification: WRMP

HUM	AN MEALTH RECEPTORS SURFACE WATER PATHWAY	Score (circle one)	Multiplier	Product (score x mult.)	Max. score
43.	Population that obtains drinking water from potentially affected surface water body(ies) within 3 miles (4.8 km) downstream	1 2 3	3	0	9
44.	Water use of nearest surface water body(ies)	0 123	3	6	9
45.	Population within 1000 ft (305 m) of the site	0 1 2(3)	1	3	3
46.	Distance to the nearest installation boundary	0 1 23	1	3	3
47.	Land use and/or zoning within 1 mile (1.5 km) of the site	0 1 2 3	1	3	3
48.	Sum of items 43 through 47			15	27
49.	Final score for human health receptors on surface water pathways (multiply item 48 x 100/27)		55.556		
ECOI	OGICAL RECEPTORS SURFACE WATER PATHWAYS				
50.	Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site	0 123	5	10	15
51.	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	0	3
52.	Sum of items 50 and 51			10	18
53.	Final score for ecological receptors on surface water pathways (multiply item $52 \times 100/18$)			55.556	

COMMENTS ON SURFACE WATER RECEPTORS

Site identification: WRMP

TAN II	EALTH RECEPTORS GROUNDWATER PATHWAY			
	·	Score (circle one)	Multiplier	Product M (score x s
54.	Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s)	①1 2 3	9	0
55.	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	①1 2 3	5	
56.	Groundwater use of the uppermost aquifer	(O)1 2 3	4	0
57.	Population potentially at risk from groundwater contamination	06 9 12 18 24 27 36	1	0 36
58.	Population within 1000 ft (305 m) of the site	0 1 2(3)	1	3 3
59.	Distance to the nearest installation boundary	0 1 2(3)	1	2
60.	Sum of items 54 through 59	0 1 10	•	
61.	Final score for human health receptors on groundwater pathways (multiply item 60 x 100/96)			6.25
OGICA	L RECEPTORS GROUNDWATER PATEWAYS	***************************************		
62.	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	0 123	3	<u>6</u> 9
63	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0 123	3	6 g
	Presence of "critical environments" within 1 mile (1.5 km) of the site	⊙ ₃	1	0 з
64.		⊙ ₃	1	0 3

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

SCORING SUMMARY SHEET

		<u>Pa</u>	thways score	2	Contaminant hazard score	1	Receptors sco	ore		Overall score
67.	Surface water/human health scores	(100 item 12	x	100 item 25/30	x	55 <u>.556</u> item 49)	/10,000 =	5 <u>5.556</u>
58.	Surface water/ecological scores	(100 item 12	x	16.667 item 28/32	x	55.556 item 53)	/10,000 =	9.260
69.	Groundwater/human health scores	(100 item 22	x	100 item 35/40	x	6.25 item 61)	/10,000 =	6.25
70.	Groundwater/ecological scores	(100 item 22	x	<u>16.66</u> 7	x	57.143)	/10,000 =	9.524

OVERALL SITE SCORE:

72. Overall site score
$$\sqrt{\frac{15804.112}{\text{item }71}}$$
 / 3.464 = $\frac{36.292}{\text{36}}$ = 36

TABLE P-6 WRMP HAZARD WORKSHEET IRP STAGE 2 SELFRIDGE, MICHIGAN

THAZARD (ug/L) (ug/day) (ug/L) (ug/L) (L/KG) 1	CONTAMINANT NANT NAME	2 CONCENTRATION	3 HEALTH EFFECTS BENCHMARK	4 AQUATIC EFFECTS BENCHMARK	5 TERRESTRIAL BEFECTS BENCHMARK	6 BIOACCUMULATION FACTOR
BATELINE 0.04 3.60 100 BATIUM 0.15 14500 100 BATIUM 0.15 14500 100 GENERIUM 0.05 100 100 CADMIUM 0.016 16 16 CADPIUM 0.016 1.20 200 1,4-DICHLORGENZHE 460 2850 100 1,5-DICHLORGENZHE 2.00 2850 1120 1,1-DICHLORGENZHE 2.00 2850 2850 1,1-DICHLORGENZHE 2.00 2850 2850 1,1-DICHLORGENZHE 2.00 2850 2850 1,1-DICHLORGENZHE 2.00 2250 2100 2210 1,1-DICHLORGENZHE 2.00 2250 2100 2210 2210 DICHINITHALATE 2.00 2200 2200 2200 2200 2200 2200 HENYLEME CHINGOPHENOL 2.00 1.10 2200 2200 2200 2200 2200 2200 2200 2200 </th <th>NANT</th> <th>(na/L)</th> <th>(ug/day)</th> <th>(ng/L)</th> <th>(ng/L)</th> <th>(L/KG)</th>	NANT	(na/L)	(ug/day)	(ng/L)	(ng/L)	(L/KG)
STATE 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,4500 1,	ARSENIC		0.04	360	100	280
BUTTLEERYZHE 2 300 5300	BARIUM		0.15	14500		7
DECEMBRY PATALATE 10000 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700	BENZENE	2	30	5300		32
CHACHIUM COPER CONFER CONFER CONFER CONFER CONFER 1,4 - DICHLORGENIZERE 1,5 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,6 - DICHLORGENIZERE 1,6 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,8 - DICHLORGENIZERE 1,9 - DICHLORGENIZERE 1,1 - DICHLORGENIZERE 1,1 - DICHLORGENIZERE 1,1 - DICHLORGENIZERE 1,2 - DICHLORGENIZERE 1,3 - DICHLORGENIZERE 1,4 - DICHLORGENIZERE 1,5 - DICHLORGENIZERE 1,6 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,8 - DICHLORGENIZERE 1,9 - DICHLORGENIZERE 1,1 - DICHLORGENIZERE 1,1 - DICHLORGENIZERE 1,2 - DICHLORGENIZERE 1,3 - DICHLORGENIZERE 1,4 - DICHLORGENIZERE 1,5 - DICHLORGENIZERE 1,6 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHLORGENIZERE 1,7 - DICHORGENIZERE	BUTYLBENZYLPHTHALATE		10000	1700		099
COPPER CHRONIUM CURONIUM CURONIUM CURONIUM COPPER CURONIUM COPPER CURONIUM COPPER CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIIM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONIUM CURONI			02	99.0		20
COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPE COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPE COPPER COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPPE COPP	CHROMIUM		0.016	16		200
1,4- DICHLOROBERZENE 460 1120 1,4- DICHLOROBERZENE 460 2850 1,5- DICHLOROBERAENE 460 2850 1,1- DICHLOROBERAENE 18000 2.6 185000 1,1- DICHLOROETHANE 116 118000 2.2 1,1- DICHLOROETHANE 100 2.6 11000 2120 2,4- DIMETHYLPHENOL 9.6 2120 2120 2120 2120 ETHYLBERZENE 1,00 3.2000 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	COPPER		2000	9.5		210
1,3 - DICHLOROBENZENE 460 2850 1,1 - DICHLOROBENZENE 15 118000 1,2 - DICHLOROBETHANE 116 11000 1,2 - DICHLOROBETHANE 116 11000 2,4 - DIMETHYLPHENOL 22000 32000 1,2 - DIMETHYLPHENOL 22000 32000 1,2 - DIMETHYLPHENOL 22000 32000 1,3 - DICHLOROPHENOL 22000 34 5000 1,4 - DIMETHYLPHENOL 22000 34 5000 1,4 - DIMETHYLPHENOL 22000 3200 1,4 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 2200 3200 1,5 - DIMETHYLPHENOL 32000 ,4- DICHLOROBENZENE		097	1120		069	
1,1- DICHLOROETHANE 1,2- DICHLOROETHANE 1,2- DICHLOROETHANE 1,2- DICHLOROETHANE 1,16 11000 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100	1,3- DICHLOROBENZENE		097	2850		07/2
1,2- DICHLOROETHENE 2.6 135000 DICHLOROETHENE DICHLOROETHENE DICHLOROETHENE DICHLOROETHENE DICHLOROETHENE DICHLOROETHENE DICHLOROETHENE DICHLOROETHENE LEAD NETHYLENE CHLORIDE NAPHTHALENE LEAD NETHYLENE CHLORIDE NAPHTHALENE NICKEL 4- HIROPHENOL NICKEL 4- HIROPHENOL NICKEL NICKEL 4- HIROPHENOL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NICKEL NIC	1,1- DICHLOROETHANE		15	118000		71
DICHLOROFLUOROMETHANE 116 11000 DICHLOROFLUOROMETHANE 10000 55100 DIEHYLPHRALATE 9.6 2120 DIMETHYLPHENOL 2200 32 000 LEAD 100 34 5000 LEAD 2200 32 00 34 5000 LEAD 280 23 00 20 20 NAPHYLENE 280 23 00 20 20 NAPHYLENE 280 23 00 20 20 NITCKEL 280 28 2800 37 300 20 NITCKEL 280 13 28 800 20 NITROPHENOL 280 1000 37 300 20 PENTACHLOROFHANOL 4 5280 37 300 20 SILVER 1000 34 1000 4 52 80 24 175 00 SILVER 1000 34 1000 34 1000 34 1000 34 1000 XILVER 1000 34 1000 18 1000 18 1000 1000	1,2-		2.6	135000		7.2
DIETHYLPHTHALATE 10000 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 521000 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100 52100	DICHLOROFLUOROMETHANE		116	11000		æ
DIMETHYLPHENOL 9.6 2120 ETHYLBERIZENE 2200 32000 ETHYLBERIZENE 4 193000 METHYLER CHLORIDE 280 2300 METHYLER CHLORIDE 280 2300 NICKEL 260 1100 200 NICKEL 260 1100 200 NITROPHENOL 25 37300 PET HYDRO (ASSUME MOTOR DIL.) 2000 41.3 28800 PET HYDRO (ASSUME MOTOR DIL.) 6800 10000 1.2 PHENOL 2280 1.2 37300 PHENOL 4 .5280 1.2 TETRACHLOROETHANE 4 .5280 1.2 TETRACHLOROETHENE 4 .5280 17500 TRICHLOROETHENE 4 .5280 17500 TRICHLOROETHENE 4 .5280 11000 XYLENES 11000 381000 11000 XYLENES 15000 180 2000 1 TRICHLOROETHENE 15000	DIETHYLPHTHALATE		10000	52100		120
ETHYLBENZENE 2200 32000 5000 LEAD 100 34 5000 MATHYLENE 4 193000 200 NAPHYHALENE 280 2300 200 NAPHYHALENE 280 2300 200 NATCKEL 0.7 8280 200 NITCKEL 0.7 8280 37300 PET HYDRO (ASSUME MOTOR OIL) 6800 10000 200 PET HYDRO (ASSUME MOTOR OIL) 6800 10000 1.2 PET HYDRO (ASSUME MOTOR OIL) 6800 10000 1.2 SILVER 22 1.2 2.2 TETRACHLOROETHANE 4 5280 1.2 TOLUENE 4 5280 17500 TRICHLOROETHANE 4 5280 17500 TRICHLOROETHANE 4 5280 TRICHLOROETHANE 11 11000 XYLENES 16 13500 ZINC 16 13500 TOLUENE 10000 18000<	2,4- DIMETHYLPHENOL		9.6	2120		150
LEAD 34 5000 METHYLENE CHLORIDE 4 193000 5000 NAPHTHALENE 280 2300 2000 NITROPHENE 260 1100 200 NITROPHENOL 2000 13 28800 200 PENTACHLOROPHENOL 2000 13 28800 37300 PET HYDRO (ASSUME MOTOR DIL.) 2000 13 28800 10000 PET HYDRO (ASSUME MOTOR DIL.) 6800 10000 1.2 37300 PHEN DIL. 2000 1.2 37300 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200 1.2 200			2200	32000		280
METHYLENE CHLORIDE 4 193000 NAPHTHALENE 2300 2300 NICKEL 260 1100 200 NITROPHENOL 280 55 37300 PET HYDRO (ASSUME JP-4) 2000 13 28800 37300 PET HYDRO (ASSUME MOTOR OIL) 6800 10000 41.2 2700 1.2 PET HYDRO (ASSUME MOTOR OIL) 6800 10000 41.2 2800 1.2 SILVER 20 1.2 20 1.2 2.2 1.2 SILVER 4 5280 1.2 2.2 1.2 2.2 SILVER 4 5280 1.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.	LEAD		100	34		300
NAPHTHALENE 280 2300 NICKEL 260 1100 200 NITROPHENOL 280 55 37300 PET HYDRO (ASSUME JP-4) 2000 13 28800 37300 PET HYDRO (ASSUME MOTOR OIL) 2000 61.9 37300 37300 PET HYDRO (ASSUME MOTOR OIL) 2000 1.2 37300 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000	METHYLENE CHLORIDE		7	193000		7.7
NICKEL NICKEL NITROPHENOL NITROPHENOL NITROPHENOL NITROPHENOL NITROPHENOL NITROPHENOL NITROPHENOL NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET HYDRO (ASSUME MOTOR OIL) NET H	NAPHTHALENE		280	2300		430
NITROPHENOL 0.7 8280 PENTACHLOROPHENOL 280 55 37300 PET HYDRO (ASSUME MOTOR OIL) 2000 13 28800 37300 PET HYDRO (ASSUME MOTOR OIL) 64.9 10000 1.2 2.0 1.2 2.0 1.2 2.0 1.2 2.0 1.2 2.0 1.2 2.0 1.2 2.0 2.0 1.2 2.0 1.2 2.0 1.2 2.0 1.2 2.0 1.2 2.0 2.0 1.2 2.0 2.0 1.2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	NICKEL	-	260	1100		100
PENTACHLOROPHENOL 280 55 37300 PET HYDRO (ASSUME JP-4) 2000 13 28800 PR PET HYDRO (ASSUME MOTOR OIL) 64.9 10000 PR PHENOL 20 1.2 PR SILVER 20 1.2 PR TETRACHLOROFTHANE 4 .5280 PR TOLUENE 24 45000 PR TRICHLOROFTHANE 11 11000 381000 VINYL CHLOROFT LOROFTHANE 16 13500 PR VINYL CHLORIDE 16 13500 10000 180 2000 1 ZINC 10000 180 2000 1			0.7	8280		
PET HYDRO (ASSUME JP-4) 2000 13 28800 PET HYDRO (ASSUME MOTOR OIL) 661.9 10000 PHENOL 20 1.2 SILVER 20 1.2 SILVER 4 5280 TETRACHLOROETHANE 24 17500 TETRACHLOROETHENE 4 5280 TOLUENE 4 45000 TRICHLOROETHANE 11 11000 TRICHLOROFILUROMETHANE 11 11000 VINYL CHLORIDE 16 13500 XYLENES 16 13500 ZINC 180 2000 1	PENTACHLOROPHENOL		280	55	37300	780
PET HYDRO (ASSUME MOTOR OIL) 64.9 PHENOL 6800 10000 SILVER 1.2 1.2 SILVER 1.2 20 1.2 SILVER 1.0 9320 1.2 TETRACHLOROETHANE 24 17500 17500 TRICHLOROFTHANE 42 45000 11000 TRICHLOROFLUGROMETHANE 11 11000 381000 VINYL CHLORIDE 16 13500 16 XYLENES 16 13500 10000 ZINC 180 2000 1		2000	13	28800		120
PHENOL 6800 10000 SILVER 1.2 SILVER 1.2 SILVER 1.2 SILVER 1.2 TETRACHLOROETHANE 4 .5280 TOLUENE 24 17500 TRICHLOROFTLUROMETHANE 42 45000 TRICHLOROFLURORMETHANE 11 11000 VINYL CHLORIDE 16 13500 XYLENES 16 13500 ZINC 180 2000 1	MOTOR		61.9			
SILVER 20 1.2 TETRACHLOROETHANE 10 9320 TOLUGNE 4 .5280 TOLUGNE 42 45000 TRICHLOROETHENE 11 11000 TRICHLOROFLUOROMETHANE 1000 381000 VINYL CHLORIDE 16 13500 ZYLENES 16 13500 ZINC 180 2000 1	PHENOL		0089	10000		1.7
TETRACHLOROETHANE 10 9320 TETRACHLOROETHENE 4 , 5280 TOLUENE 24 17500 TRICHLOROETHENE 42 45000 TRICHLOROETHENE 11 11000 TRICHLOROETHENE 11 11000 VINYL CHLORIDE 16 13500 XYLENES 16 13500 ZINC 180 2000 1	SILVER		8	1.2		2
CHLOROETHENE	TETRACHLOROET		10	9320		7.9
HES 17500 24 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 17500 175000 175000 175000 175000 175000 1750000 1750000 1750000000000	TETRACHLOROETHENE		7	. 5280		7 7
ILOROFTHENE 42 45000 ILOROFLUDROMETHANE 11 11000 . CHLORIDE 381000 IES 15 13500 10000 180 2000	TOLUENE		54	17500		83
ILOROFLUOROMETHANE 11 11000 381000 CHLORIDE 1000 381000 15500 FES 10000 180 2000 1	TRICHLOROETHENE		75	45000		47
CHLORIDE 1000 361000 IES 13500 10000 180 2000 1	TRICHLOROFLUOROMETHANE		=	11000		7.2
16 13500 10000 180 2000 1	HLOR 10		1000	381000		7.2
10000 180 2000 1	XYLENES		16	13500		320
	ZINC		10000	180	2000	1000

. Col 7 = (col 2) x (2 L/day) Col 8 = (col 2) x (col 6) x (0.0065 kg/day) Col 9 = (col 7) + (col 8) Col 10 = (col 9) / (col 3) Col 11 = (col 2) / (col 4) Col 12 = (col 2) / (col 5)

TABLE P-6 (continued)
WRMP HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

WRMP GROUNDS	CONTAMINANI NAME WRMP GROUNDWATER CONTAMINANT HAZARD	DRINKING WATER INTAKE (ug/day)	FOOD INTAKE (ug/day)	TOTAL INTAKE (ug/day)	HEALTH HAZARD QUOTIENT	AQUATIC HAZARD QUOTIENT	TERRESTRIAL HAZARD QUOTIENT
4	ARSENIC Barium	00	0.0000	0.0000	0.0000	0.0000	0.000
	BENZENE	7	0.4160	4.4160	0.1472	0.0004	0.000
G	BUTYLBENZYLPHTHALATE	0	0.000	0.000	000000	0.000	0.000
J	CADMIUM	0	0.000	0.000	0000.0	0.000	0.000
J	CHROMIUM	0	0.000	0.000	0.000	0.000	0.000
J	COPPER	0	0.000	0.000	0.000	0.000	0000
1,4-	DICHLOROBENZENE	0	0.000	0.000	0000	0000*0	0.000
	DICHLOROBENZENE	0	0000	0.000	0.000	0.000	00000
	DICHLOROETHANE	.	0.0000	0000	0.000	0.000	0.000
TRANS-1,2- D	DICHLOROETHENE	0	0.000	0.000	0.000	0000	0.000
<i>ا</i> م	DICHLOROFLUOROMETHANE		0.000	0.0000	0.0000	0000	0.0000
	DIETHYLPHIMALAIE	5 (0.000	0.0000	0.0000	0.0000	0.000
5,4- D	DIMETHYLPHENOL	0	00000	0.000	0.000	0.000	0,000
ш.	ETHYLBENZENE	0	0.0000	0.0000	0.000	0.000	0.000
_	LEAD	0	0.000	0.000	0.000	0.000	0.000
Σ	METHYLENE CHLORIDE	0	0000	0.000	0000.0	0.000	0.000
2	NAPHTHALENE	0	0.000	0.000	0.000	0000	0.000
	NICKEL	0	0.000	0.000	0.000	0000	00000
N - 7	NITROPHENOL	0	0000	0.000	0.000	0,000	0.000
<u> </u>	PENTACHLOROPHENOL	0	0.000	0.000	0.000	0.000	0.0000
۵.	PET HYDRO (ASSUME JP-4)	0005	1560.0000	5560.0000	427.6923	0.0694	0.000
۵.	PET HYDRO (ASSUME MOTOR OIL)	0	0.000	0.000	0.0000	0000	00000
۵.	PHENOL	0	0.000	00000	0000.0	0000	0.000
S	SILVER	0	0.000	0.000	0.0000	0000.0	0.000
1,1,2,2- T	TETRACHLOROETHANE	0	0.000	0.000	0.0000	0000.0	0.000
	TETRACHLOROETHENE	0	0.0000	0.000	0.0000	0000	0.000
	TOLUENE	0	0,000	0.000	0.000	0000.0	0000
}	TRICHLOROETHENE	0	0.000	0.000	0.000	0.000	0000
-	TRICHLOROFLUOROMETHANE	0	0.000	0,000	0.000	0000	0.000
>	VINYL CHLORIDE	0	0.000	0.000	0.000	0000.0	0.000
×	XYLENES	0	0.000	0.000	0.000	0000.0	0.000
2	ZINC	0	0000	0.0000	0,000	0.000	0000.0
, 6	Col 7 = (col 2) × (2 1 /dav)		15	SHINS =	5018-752	0.0608	0000
، د	% (C 100) = %	(Ve) 0065 kg/day)	=		2 6313	-1 1560	001
ن د	(2 102) = 6	1 an /64 coop o	2	2		200	LAN
ū	10 = (col 9) /	•					
·	11 = (col 2) /						
Ö	12 = (col 2) /						

TABLE P-7 WRMP HAZARD WORKSHEET IRP STAGE 2 SELFRIDGE, MICHIGAN

*	: 0	4 (v c	, –				0	•	~	.	-	.		,				6	6		~ ^	. .	×	~	~		C)	_	_	:			
6 BIOACCUMULATION FACTOR (L/KG)	280	,	76	8 6	20,7	2	069	72	-	7.	80 (21	2 0	02	7		Į.		780	120		1.7	7 6	97 6.1	· 60	-	72	7.	320	1001				
5 TERRESTRIAL EFFECTS BENCHMARK (ug/L)	100			10	100	200								2000			200		37300											2000	2 4 5 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9			
4 AQUATIC EFFECTS BENCHMARK ((ug/L)	360	14500	1700	99.0	16	9.5	1120	2850	118000	135000	11000	2120	32000	34	193000	5300	1100	8280	55	28800		10000	0620	5280	17500	45000	11000	381000	13500	180	1 6 7 7 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9			
3 HEALTH EFFECTS BENCHMARK (ug/day)	0.04	0.15	10001	20	0.016	2000	097	097	£ ;	2.6	1000	90001	2200	100	7	280	260	0.7	280	13	61.9	0890	1,00	2 4	54	75	=	1000	16	10000	1 1 1 1 4 4 4 6 7 1 1 1 1 1			
2 CONCENTRATION (Ug/L)				-			€0													2000											(0.0065 kg/day)			
1 CONTAMINANT NAME WRMP SURFACE WATER CONTAMINANT HAZARD	ARSENIC	BAXION	BUTYLBENZYLPHTHALATE	CADMIUM	CHROMIUM	COPPER		DICHLOROBENZE	1,1- DICHLOROETHANE	DICHLOROEI HEN	DICTLOROTLOCKONE INANE	2.4- DIMETHYLPHENOL	ETHYLBENZENE	LEAD	METHYLENE CHLORIDE	NAPHTHALENE		4- NITROPHENOL	ENOL		PEL NIDRO (ASSUME MOIDE OIL)	STILVED	1.1.2.2- TETRACHLOROETHANE	TETRACHLOROET	TOLUENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	. XYLENES,	ZINC	$7 = (col 2) \times (2 L/day)$ $8 = (col 2) \times (col 6) \times$	Col 9 = (col 7) + (col 8)	11 = (col 2) / (col	Col 12 = (col 2) / (col 5)

TABLE P-7 (continued)
WRMP HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

CONTAMINANT NAME WRHP SURFACE WATER CONTAMINANT HAZARD	7 DRINKING WATER INTAKE HAZARD (UG/day)	8 FOOD INTAKE (ug/day)	9 TOTAL INTAKE (ug/day)	10 HEALTH HAZARD QUOTTENT	11 AGUATIC HAZARD QUOTIENT	
ARSENIC	0	0.000	0.000	0,000	0.000	0.000
BARIUM	0	0.000	0.0000	0,000	0.000	0.000
BENZENE	0	00000	0,000	0.000	0.000	0.000
BUTYLBENZYLPHTHALATE	0	0.000	0.000	0.000	0.000	0.000
CADMIUM	0	0,000	00000	0.000	0000	0000
CHROMIUM	0	0,000	0.000	0.000	0.000	0000
COPPER	0	0.000	0.000	0000	0000	0000
1,4- DICHLOROBENZENE	16	35.8800	51.8800	0.1128	0.0071	0000
1,3- DICHLOROBENZENE	0	0.000	0.000	0.000	0.000	0000-0
<u>-</u> ,	0	0.000	0,000	0.000	0.000	0.000
	0	0.000	0.0000	0.000	0.000	0.000
DICHLOROFLUOROMETHANE		00000	0.000	0.000	0.000	0.000
	0	0.000	0.000	0.000	0.000	0,000
2,4- DIMETHYLPHENOL	0	0,000	0.000	0.000	0.000	0.000
ETHYLBENZENE	0	0.000	0.000	0.000	0.000	0000
LEAD	0	0.000	0.0000	0.000	0.000	0.000
METHYLENE CHLORIDE	0	0.000	0.0000	0.000	0.000	0000'0
NAPHTHALENE	0	0.000	0.000	0.000	0,000	0.000
	0	0.000	0.000	0.000	0.000	00000
4 - NITROPHENOL	0	0.0000	0.0000	0.000	0.000	0.000
		00000	0.0000	0.000	0,000	0.000
PEI HYDRO (ASSUME JP.	700	1560.0000	5560,0000	427.6923	0.0694	0.000
PEI HIDRO (ASSUME MOIOR DIL)		0.0000	0.0000	0.0000	0.0000	0.000
PACAOL		0.0000	0.0000	0.0000	0.000	0.0000
		0.0000	0.0000	0.0000	0.000	0.000
TETOACHLOROETHANE		0,000	0.000	0.000	0.0000	0.0000
TOTTENE		0,000	0,000	0.000	0.0000	0.0000
TO ICHI ODUETHENE		0000	0,000	0.000	0.000	0.000
TRICH ORDER HORDWETHANE		0000	0,000	0.000	0.0000	0,000
VINYI CHIORIDE		000.0	0000	0,000	0,000	0.000
XYIENES	· c	0000	00000	0000	0000	0.000
7110	•	00000	0.000	0.0000	0.000	0.0000
7817		0,000	0,000	0.0000	0.0000	0.0000
$7 = (col 2) \times$	(2 L/day)	∩S	SUMS =	427.8051	0.0766	0.000
8 = (col 2) x	(col 6) x (0.0065 kg/day)	2	LOG OF SUMS =	2.6312	-1.1158	ERR
9 = (col 7) +	8)					
10 = (col 9) /	(col 3)					
11 = (col 2) /						
Col 12 = (col 2) / (c	(col 5)					

Tucker Creek Landfill (TCLF) Defense Priority Model List of Comments Used to Justify Scoring

Item <u>Number</u>	Comment
1.	Contaminants have been detected in the surface water at TCLF. Contaminants detected were petroleum hydrocarbons, trans-1,2-dichloroethene, butylbenzylphthalate and elevated metals were found. Score as 100.
11.	The TCLF is covered by earthen material, but is probably not an engineered clay cap. Flood control structures, such as the dike around the lake perimeter, are present. Runon and ponding of surface water does occur at the site. Surface water is removed from the site by the stormwater drainage system. Score as 0.5.
13.	Analyses of groundwater samples determined that contaminants do occur in samples from the monitor wells at the site. Contaminants detected include petroleum hydrocarbons, trichloroethene, methylene chloride, di-n-butylbenzene, bis(2- ethylhexyl)-phthalate, 1,4-dichlorobenzene, butylbenzylphthalate and elevated concentrations of metals. Score as 100.
21.	No provisions have been taken to clean up contamination at the site. No structures exist to contain these contaminants. Also, the TCLF does not have an engineered liner. No record of the use of any type of a liner at the site. Score as 1.
23-42.	Scoring of these questions is based on calculated sums and logs shown on hazard scoring tables detailing the contaminants detected at the site.
43.	Drinking water is not obtained from Lake St. Clair within three miles of the TCLF site. There are no known users within this area. Score as 0.
44.	The nearest surface water body is Lake St. Clair. It is used for recreation and sport fishing. The city water plant intake is more than 3 miles from the site. Score as 2.

- Population within 1,000 ft. of the site is greater than 100. This population includes people at the school, base homes, and offices. Score as 3.
- Distance to the nearest base boundary is less than 10-20 ft. The boundary of the site is nearly coincident with the base boundary at the edge of Lake St. Clair. Score as 3.
- 47. Land use within one mile of the site is dominantly residential. There is also some commercial and light industry within this area. Score as 3.
- Surface water from the site is discharged untreated, directly into Lake St. Clair. The lake is immediately adjacent to the site. The lake serves as an area for fish spawning and feeding. The lake is also managed by local and/or state agencies. Score as 2.
- No known critical environments occur within one mile of the site. Score as 0.
- No wells within three miles of the site are known to supply drinking water. Water is supplied by the city to the base and area residents. Score as 0.
- 55. Groundwater is being intercepted by the stormwater drainage system based on monitor well water levels and potentiometric surface maps constructed using level data. Groundwater intercepted in a 5 to 20 year period by the sewers. The storm water drainage discharges to Lake St. Clair. However, there are system no surface water inlets within three miles. Score
- No known use of water from the ground below the site occurs. Water is available from the city. There are no downgradient users of groundwater within 3 miles of the site. Score as 0.
- No population uses groundwater from site or within three miles of the site. Surface water in Lake St. Clair that could be contaminated by groundwater from the site would not affect any population using drinking water from the lake. This is because the drinking water intake for the City of Mt Clemens is more than three miles from the site. Score as 0.

- See question #45. Population within 1,000 ft. of site is greater than 100 people. Score as 3.
- Distance to the nearest base boundary is less than 10-20 feet. Site boundary is nearly coincident with the base boundary along Lake St. Clair. Score as 3.
- Groundwater is being intercepted by the stormwater 62. drainage system based on monitor well water levels and potentiometric surface maps constructed using Groundwater water level data. intercepted in a 5 to 20 year period by the drainage storm water sewers. The discharges to Lake St. Clair. However, there are no surface water inlets within three miles. Score as 0.
- 63. Lake St. Clair would receive any contaminated groundwater from the site. Score as 2.
- No known critical environments occur within one mile of the site. Score as 0.

Site identification: Tucker Creek Landfill (Site 05) - TCLF

SITE	RFACE WATER PATHWAYS							
				rc	1.	Multiplier	(score x	Max.
<u> </u>	PATAGO TATANZAN		0	по)		mult.)	
1.	Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2.	0		(100	1	100	100
Pat	hway characteristics							
2.	Distance to nearest surface water	0	1	2	3	4	 ,	12
3.	Net precipitation	0	1	2	3	1		3
4.	Surface erosion potential	0	1	2	3	4		12
5.	Rainfall intensity	0	1	2	3	4		12
٤.	Surface permeability	0	1	2	3	3		9
	Sum of items 2 through 6							48
8.	Normalized score (multiply item 7 x 100/48)							
9.	Flooding potential	0	1	2	3	8		24
10.	Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 100	•					100	•
11.	Waste containment effectiveness factor (Table 2)						0.5	
12.	Final score for surface water pathways (multiply ite	m	10	x	iten	n 11)	50	

COMMENTS ON SURFACE WATER PATHWAYS

All comments are presented on the typed pages following the scoring sheets for the TCLF.

Prepared by Chouse 9Dec 88 Checked by RHG 12/9/88

GROUNDWATER PATEMAYS

	served releases	Score (circle one)	Multiplier	Product (score x mult.)	Max. score
	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	. 0 100	1	100	100
Pat	hway characteristics		•		
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0 1 2 3	9		
15.	Permeability of the unsaturated zone	0 1 2 3	5		27 15
16.	Infiltration potential	0123	5		
17.	Sum of items 14 through 16		•		15
18.	Normalized score (multiply item 17 x 100/57)				57
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water table				
		0 1 2 3	5		15
20.	Adjusted pathways score. If item 13 is 100, enter 1 If item 13 is 0, enter sum of items 18 and 19. If sum exceeds 100, enter 100.	100.		100	•
21.	Waste containment effectiveness factor (Table 5)		-	100	
	Final score for groundwater pathways (multiply item	20 x item 21)	-	1.0	

COMMENTS ON GROUNDWATER PATHWAYS

CONT	AMINANT HAZARD SURFACE WATER				···
	ontaminants have been detected in surface water (score of 100 in item aminants have not been detected (score of 0 in item 1), complete items ontaminants, as appropriate.	1), complete 29 through 3	items 23 th 2. Attach I	rough 28. If Hazard Worksheet	or lis
		Score (circle	Result	Logarithm (base 10)	
23.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)		9 <u>75.99</u> 84	4.6530	
24.	Human health hazard score	0 1 2 4(6)			
25.	Normalized human health hazard score (multiply item 24 x 100/5)	•	100		
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)	4	5.1153	1.6543	
27.	Ecological hazard score	0 1 2 3			
28.	Normalized ecological hazard score (multiply item 27 x 100/6)	(4) 5 6	<u>66.66</u> 7		
29.	Maximum human health hazard index	0 1 2 3 4 5 6 7 8 9	Contami	nant:	
30.	Normalized human health hazard score (multiply item 29 x 100/9)				
31.	Maximum ecological hazard index	0 1 2 4 6	Contami	nant:	
	Normalized ecological hazard score (multiply item 31 x 100/6)				
f cor	MINANT HAZARD GROUNDWATER staminants have been detected in groundwater (score of 100 in item 13) not been detected (score of 0 in item 13), complete items 39 through 42 minants, as appropriate.	, complete it: 2. Attach Ha:	ems 33 throi zard Workshe	agh 38. If conta	minants
33.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	51	8 <u>07.7</u> 911	4.7144	
34.	Human health hazard score	0 1 2 4 6			
35.	Normalized human health hazard score (multiply item 34 x 100/5)		100		•
36.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)	1	9.5634	1.2914	
37.	Ecological hazard score	0_1 2 3			
38.	Normalized ecological hazard score (multiply item 37 x 100/6)	4)5 6	<u>66.66</u> 7		
39.	Maximum human health hazard index	0 1 2 3 4 5 6 7 8 9	Contamin	ant:	
40.	Normalized human health hazard score (multiply item 39 x 100/9)				
41.	Maximum ecological hazard index	0 1 2 4 6	Contamin	ant:	
42.	Normalized ecological hazard score (multiply item 41 x 100/6)				

HUMA	AN SEALTH RECEPTORS SURFACE WATER PATHWAY	Score (circle one)	Multiplier	Product Max. (score x score mult.)
43.	Population that obtains drinking water from potentially affected surface water body(ies) within 3 miles (4.8 km) downstream	0 1 2 3	3	e
44.	Water use of nearest surface water body(ies)	0 123	3	6g
45.	Population within 1000 ft (305 m) of the site	0 1 2(3)	1	<u>3</u> 3
46.	Distance to the nearest installation boundary	0 1 2(3)	1	33
47.	Land use and/or zoning within 1 mile (1.6 km) of the site	0 1 2(3)	1	<u>3</u> 3
48.	Sum of items 43 through 47			<u>15</u> 27
49.	Final score for human health receptors on surface water pathways (multiply item 48 x 100/27)		5 <u>5.556</u>	
COL	OGICAL RECEPTORS SURFACE WATER PATHWAYS			
50.	Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site	0 123	5	<u>10</u> 15
51.	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	3
2.	Sum of items 50 and 51			<u>10</u> 18
3.	Final score for ecological receptors on surface water pathways (multiply item $52 \times 100/18$)			55.556

COMMENTS ON SURFACE WATER RECEPTORS

MAN HI	EALTH RECEPTORS GROUNDWATER PATHWAY			
	• ·	Score (circle one)	Multiplier	Product M (score x smult.)
54.	Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s)	0 1 2 3	9	02
55.	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	0 1 2 3	5	<u>0</u> 1
56.	Groundwater use of the uppermost aquifer	①1 2 3	4	0 12
57.	Population potentially at risk from groundwater contamination	06 9 12 18 24 27 36	1	036
58.	Population within 1000 ft (305 m) of the site	0 1 2(3)	1	3 з
59.	Distance to the nearest installation boundary	0 1 2(3)	1	3 3
60.	Sum of items 54 through 59		-	
61.	Final score for human health receptors on groundwater pathways (multiply item $60 \times 100/96$)			6.25
.OGICA	L RECEPTORS GROUNDWATER PATHWAYS			
62.	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	0 123	3	<u>6</u> 9
	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0 123	3	6 g
64.	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	о з
65.	Sum of items 62 through 64			12 21
66.	Final score for ecological receptors on groundwater pathways (multiply item $65 \times 100/21$)		ı	<u>12</u> 21 57.143

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

Site identification:

TCLF

SCORING SUMMARY SHEET

		<u>Pa</u>	thways scor		Contaminant hazard score	. Re	eceptors score	Overall score
67.	Surface water/human health scores	(50 item 12	x	100 item 25/30	x	$\frac{55.556}{\text{item 49}}$ /10,000 =	27.778
68.	Surface water/ecological scores	(50 item 12	x	66.667 item 28/32	x	$\frac{55.556}{\text{item } 53}$ /10,000 =	18.519
69.	Groundwater/human health scores	(100 item 22	x	$\frac{100}{\text{item } 35/40}$	x	$\frac{6.25}{\text{item 61}}$) /10,000 =	6.25
70.	Groundwater/ecological scores	(100 item 22	x	66.667	x	57.143) /10,000 =	38.096

OVERALL SITE SCORE:

71.
$$(\frac{27.778}{\text{item }67})^2 \times 5 + (\frac{18.519}{\text{item }68})^2 + (\frac{6.25}{\text{item }69})^2 \times 5 + (\frac{38.096}{\text{item }70})^2 = \frac{5847.657}{}$$

72. Overall site score =
$$\sqrt{5847.657}/3.464 = 22.075 = 22$$

TABLE P-8
TCLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

	!
6 BIOACCUMULATION FACTOR (L/KG)	280 8510 8510 87210 87210 1100 1100 1100 1100 1100 1100 1100
5 TERRESTRIAL EFFECTS BENCHMARK (ug/L)	\$000 100 100 200 200 200 37300
4 AQUATIC EFFECTS BENCHMARK (ug/L)	360 14500 5300 160 0.66 0.66 1120 2850 118000 118000 11000 2120 2120 2120 212
3 HEALTH EFFECTS BENCHMARK (ug/day)	30.04 10000 10000 2000 4600 4600 116 116 10000 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200
2 CONCENTRATION (ug/L)	929 2 4 17 30 2 68 1790 2 4.1 4.1 4.1
1 CONTAMINANT NAME TCLF GROUNDWATER CONTAMINANT HAZARD	ARSENIC BARIUM BENZENE BIS(2-ETHYLHEXYL)PHTHALATE BIS(2-ETHYLHEXYL)PHTHALATE CADMIUM CHRONIUM CHRONIUM COPPER DICHLOROBENZENE DICHLOROBENZENE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE DICHLOROETHANE THYLBENZENE HRON LEAD AANGANESE WETHYLBENZENE HRON LEAD AANGANESE WETHYLBENZENE FIRTACHLOROFHENOL FITTROPHENOL FITTR
TCLF GROU	1,4- 1,3- 1,1- 2,4- 1,1,2,2- 1,1,2,2- 1,1,2,2- 1,1,2,2- 1,1,2,2- 1,1,2,2- 1,1,2,2- 1,1,2,2- 1,1,2,2- 1,1,1,2,2- 1,1,1,2,2- 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,

TABLE P-8 (continued)
TCLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

CONTAMINANT NAME TCLF GROUNDWATER CONTAMINANT HAZARD	7 DRINKING WATER INTAKE (ug/day)	8 F000 INTAKE (ug/day)	9 TOTAL INTAKE (ug/day)	10 HEALTH HAZARD QUOTIENT	11 AQUATIC HAZARD QUOTIENT	12 TERRESTRIAL HAZARD QUOTIENT
ALUHINUH ARSENIC	0	0.000	0.000	00000	00000	0000 0
BARIUM	1858	0.0000	0.0000	0.0000	0.0000	0.0000
BENZENE D15/2-ETMX HFVX: \SHTHELL	7	0.4160	4.4160	0.777	0.0641	0.0000
BIS(Z-EINTENEXTE)PHINALATE	∞	8.0600	16.0600	0.0161	0.0004	0.0000
CADMILIM	~;	4.2900	6.2900	0.0006	0.0000	0.0000
3080	2 \$	2.6000	18.6000	0.9300	12, 1212	0,000
COPPER	09 2	39.0000	0000.66	6187,5000	1.8750	00000
	, באג	ERR	ERR	0.000	0.000	0.000
	* C	8.9700	12.9700	0.0282	0.0018	0.000
	•	0,000	0.0000	0.000	0.000	0.0000
	0	0.000	0.000	0.0000	0.000	0.000
DICHLOROFLUOROMETHANE	0	00000	0.000	0000	0.0000	0.000
2 4- DIMETHY DUGNO	0	0.0000	0.0000	0.000	0.0000	0.000
	0 `	0.0000	0.000	0.000	0000	0000 0
ETHYLBENZENE	.	1.1570	5.1570	0.0005	0.0021	0000
IRON	0 136	0.0000	0.0000	0.000	0000	0.000
LEAD	90	0.0000	180.2000	1.2013	0.1700	0.0136
MANGANESE	3580	4654.0000	8216 0000	0.000	0.000	0.000
METHYLENE CHLORIDE	7	0.0572	4.0572	1 0163	5.1143	8.9500
MAPHINALENE	0	0.000	0.000	0.000	0.000	0.0000
4- WITROBHENCE	110	35.7500	145.7500	0.5606	0.000	0.0000
	0 0	0.0000	0.000	0.0000	0.0000	0.2750
PET HYDRO (ASSUME JP-4)	> C	0.000	0.000	0.0000	0.000	0.000
	8200	0,000	0.0000	0.0000	0.000	0.000
PHENOL	0	0.000	0000.0020	152.4717	0.0000	0.0000
1 1 2 2. TETDACHIODOFTHAME	0	0.000	0.000	0,000	0.000	0.0000
	0	0.000	0.000	0.000	0000	0.0000
TOLUENE	5 C	0.0000	0.000	0.000	00000	0000
TRICHLOROETHENE	۰ «	0.000	0.0000	0.000	0.000	0.000
TRICHLOROFLUOROMETHANE		0.000	8.6350	0.2060	0.0001	0.000
VINYL CHLORIDE	0	0000	0.000	0.0000	0.000	0.0000
XYLENES	0	0.000	0,000	0.000	0.000	0.000
ZINC	20	162.5000	212, 5000	0.0000	0.0000	0.000
(Col. 10) = 7 (Col. 10)			;	0.00.0	U.1389	0.0125
$8 = (col 2) \times (col 6) \times$	(0.0065 kg/day)	SUMS		51807.7911	19.5634	10.3511
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			OF SUMS =	4.7144	1.2914	1.0150
11 = (col 2) /						
Col 12 = (col 2) / (col 5)						

TABLE P-9
TCLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

31 133 133 133 133 133 133 133 133 133
0.15 14500 100 30 1700 30 1700 20 0.66 10 2000 460 1120 460 1120 2.6 135000 116 110000 9.6 2850 116 110000 9.6 2120 10000 57100 9.6 2120 10000 57100 9.6 2800 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 3200 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 2200 32000 22000 32000 22000 32000 22000 32000 22000 32000 22000 32000
10000 1700 1700 1700 20 0.66 10 10 20 0.66 10 10 20 0.66 10 10 0 20 0.66 11 10 0 20 0.66 11 120 0 20 0 20 0 20 0 20 0 20 0 20
20 0.66 10 2000 9.2 200 460 1120 2850 15 118000 2.6 135000 116 11000 52100 9.6 2120 10000 9.2 200 10000 52100 150 400 5000 150 400 5000 150 400 5000 150 400 5000 150 40 5000 150 40 5000 150 40 5000 150 5200 150 6800 1000 1.2 5280 2.4 17500 2.4 17500 2.4 17500 2.4 17500 2.4 17500 2.4 17500 2.4 17500 2.6 11000 2.7 8280 2.8 2800 2.0 1.2 200 2.0 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200 2.0 200
0.016 16 100 2000 9.2 460 2850 460 2850 1
2000 460 1120 460 2850 15 118000 2.6 118000 10000 9.6 2120 10000 940 2200 32000 150 1000 34 5000 1000 280 280 280 280 280 280 280 280 280
460 2850 460 2850 15 118000 2.6 135000 10000 52100 9.6 2120 10000 32000 150 400 5000 100 34 5000 0.25 350 280 2300 280 2300 280 2800 61.9 10000 61.9 10000 61.9 10000 20 1.2 10 9320 4 5280 4 5280 61.9 10000 61.2 10000 1.2 10000 1.2 10000 1.3 2800 1.2 10000 1.2 10000 1.3 10000 1.3 10000 1.3 10000 1.3 10000 1.3 10000 1.3 10000 1.3 10000 1.3 10000 1.3 10000 1.3 10000
15 118000 2.6 135000 116 11000 10000 52100 9.6 2120 10000 32000 150 400 5000 150 400 5000 0.25 3500 280 2800 280 2800 0.7 8280 280 2800 61.9 10000 20 1.2 10 9320 4 5580 4 5580 4 5580 110 9320 4 5580 110 9320 4 17500 110 381000 16 13500
2.6 135000 116 11000 10000 52100 9.6 2120 10000 32000 150 400 5000 150 400 5000 280 350 280 280 200 0.7 8280 6800 10000 61.9 1.2 10 9320 4 5580 6800 10000 20 1.2 10 9320 4 5580 6800 10000 1.2 10 9320 4 5580 6800 10000 11 11000 1000 381000 16 13500
116 11000 10000 52100 9.6 2120 10000 940 2200 32000 150 400 5000 0.25 350 280 2300 260 1100 200 0.7 8280 6800 .10000 20 1.2 10 9320 4 5580 64.9 .10000 20 1.2 10 9320 42 45000 10 381000 16 13500
9.6 2120 10000 940 2200 32000 150 400 5000 100 34 0.25 350 280 2300 280 2300 280 1100 200 0.7 8280 61.9 55 37300 61.9 10000 61.9 1.2 10 9320 4 5280 4 5280 24 17500 1000 381000 1000 381000
10000 940 2200 32000 150 400 150 400 34 5000 100 34 5000 280 280 280 2800 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000
2200 32000 150 400 5000 100 34 5000 0.25 350 200 280 2300 280 2300 280 2300 280 2300 60.7 8280 61.9 55 37300 61.9 10000 6800 10000 6800 10000 6800 10000 6800 10000 1.2 2800 4 5280 4 5280 24 17500 10 9320 4 5280 11 11000 1800 181000
150 400 5000 100 34 5000 0.25 350 200 280 2300 200 280 2300 200 280 2800 200 680 1000 55 37300 680 10000 1.2 680 1000 1.2 680 1000 1.2 680 1000 2280 680 1.2 4 5280 24 17500 10 9320 4 4 5280 24 17500 11 11000 1000 381000 16 13500
100 34 5000 0.25 350 200 4 193000 280 2300 280 2300 0.7 8280 6800 11000 6800 10000 6800 10000 6800 10000 6800 10000 6800 10000 1.2 7 5280 7 65000 11 11000 16 13500
280 200 200 200 200 200 200 200 200 200
280 2300 260 1100 200 0.7 8280 280 55 37300 61.9 10000 20 1.2 10 9320 4 5280 42 45500 1000 381000 16 13500
260 1100 200 0.7 8280 280 55 37300 61.9 10000 20 1.2 10 9320 4 5280 42 45000 1000 381000 16 13500
280 55 37300 51 3 28800 51.9 10000 50 1.2 10 9320 4 5280 24 17500 42 45000 1000 381000 16 13500
53 57300 61.9 28800 6800 10000 20 1.2 10 9320 4 5280 24 17500 42 45000 1000 381000 16 13500
61.9 6800 . 10000 20
6800 .10000 -20
10 9320 4 5280 24 17500 42 45000 11 11000 16 13500
75.0 4 5280 24 17500 42 45000 11 11000 16 13500
24 17500 42 45000 11 11000 1000 381000 16 13500
42 45000 11 11000 381000 381000 7 16 13500 3
11 11000 1000 381000 7 16 13500 3
1000 381000 16 13500
1500

TABLE P-9 (continued)
TCLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

12 TERRESTRIAL HAZARD QUOTIENT	2.2400 0.1200 0.0000	0.0000	0.8000	0.0000	0.000	0.0000 0.0000 1.7720 0.066	7.4500 0.0000 0.1050 0.0000 0.0000 0.0000	0.0000000000000000000000000000000000000	12.8986
11 AQUATIC HAZARD QUOTIENT	0.0000 0.0333 0.0266	0.0000	12.1212 1.0625 7.8073	0.0000	0.000	0.0000 0.0021 0.0000 22.1500 0.9706	6.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	45.1153 1.6543
10 HEALTH HAZARD QUOTIENT	7466.6667 1146.0000 5200.0667	0.0000	0.9300 3506.2500 0.0580	0.000	0.000 0.000 0.000	0.0000 0.0005 0.0000 156.5267	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 80.7754 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	4,975.9984
9 TOTAL INTAKE (ug/day)	22400.0000 45.8400 780.0100	0.0000 18.8700	18.6000 56.1000 117.7750	0.0000	2.8655 0.0000 0.0000	5.1570 0.0000 23479.0000 130.3500	55.6500 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 1020.0000	SUNS = SUNS = LOG OF SUMS =
8 FOOD INTAKE (ug/day)	0.0000 21.8400 10.0100	0.0000 12.8700	22.1000 22.1000 47.7750	0.000	0.000 0.0000 0.0000	1.1570 0.0000 0.0000 5759.0000	13.650 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 780.0000	ਲ ਹ
7 DRINKING WATER INTAKE (Ug/đay)	22400 24 770	0 % }	2 % €	,000		17720 6 6 9	5000 5000 5000	0 0 0 0 0 0 0 240	(0.0065 kg/day)
1 CONTAMINANT NAME TCLF SURFACE WATER HAZARD	ALUMINUM ARSENIC BARIUM	BENZENE BUTYLBENZYLPHTHALATE CADMILIN	CHROMIUM				METHYLENE CHLORIDE NAPHTHALENE NICKEL 4- NITROPHENOL PET HYDRO (ASSUME MOTOR OIL) PHENOL SILVER	1,1,2,2- TETRACHLOROETHANE TETRACHLOROETHENE TOLUENE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE XYLENES	Col 7 = (col 2) x (2 L/day) Col 8 = (col 2) x (col 6) x Col 9 = (col 7) + (col 8) Col 10 = (col 9) / (col 3) Col 11 = (col 2) / (col 4) Col 12 = (col 2) / (col 5)

Northwest Landfill (NWLF) Defense Priority Model List of Comments Used to Justify Scoring

Item <u>Number</u>	<u>Comment</u>
1.	Contaminants have been detected in the surface water. Detected were butylbenzylphthalate di-n-butylphthalate, naphthane, petroleum hydrocarbons and elevated levels of metals. Score as 100.
11.	Landfill area has no run-on provisions and runoff is not controlled by any engineering measures. Ponding of excess surface water on site can occur. Waste at the site is not covered by an engineered cap. Score as 0.8.
13.	Contaminants were detected in the groundwater. Contaminants detected were bis(2-ethylhexyl)-phthalate, butylbenzylphthalate, and heavy metals. Score as 100.
21.	There are not any engineered barriers at the site. No cleanup measures have been initiated at the site. There is no evidence of a liner beneath the landfill. Score as 1.0.
23-42	Scoring of these questions is based on calculated sums and logs shown on hazard tables detailing the contaminants detected at the NWLF.
43.	No drinking water is obtained for the population from an area possibly effected by the NWLF. Lake St. Clair would be the nearest surface water body affected, but the contaminant entry point is greater than three miles from the drinking water intake for the city water plant. Score as 0.
44.	The nearest surface water body to the site is Lake St. Clair. Another surface water body, the Clinton River, is located to the south. Lake St. Clair is most likely to be affected by contaminants from the site because of the discharge of stormwater into the lake. Factors to consider are recreational uses of surface water bodies, such as fishing. It is greater than 3 miles to the public drinking water intake. Score as 2.

- 45. Population within 1,000 ft. of site is greater than 100 people. This includes base personnel as a daytime population of people in base buildings and hangers southwest and west of site. Use of a mess hall near the site contributes to this population estimate. Base personnel in the military reside in homes to the west of the site. Score as 3.
- The distance to the nearest installation boundary is approximately 200-300 feet. Score as 3.
- Land use within one mile of the site is dominantly residential. Score as 3.
- Surface water from the site would be discharged, untreated, to Lake St. Clair. Biota and habitats affected would include fish and spawning. Score as 2.
- No known critical environments occur within one mile of the site. Score as 0.
- There are no known water wells using groundwater at the site. Water is supplied by the city. No groundwater downgradient of the site is being produced by any wells. Thus, any contaminated water from the site would not reach humans. Score as 0.
- 55. Groundwater flows from the site in a general southerly direction based on the potentiometric of the groundwater elevation Groundwater intercepted by the stormwater is drainage system along the south and southeast sides of the site. The estimated travel time to reach storm sewers is approximately 75 years. Water would be discharged to Lake St. Clair, but no surface water intakes for drinking water occur within three miles of this discharge point. as 0.
- No groundwater beneath the site is being used. General lack of a defineable aquifer beneath the site, thus would not be a practical source of water. Water is supplied by the city, so there is not a need to use any groundwater at the site. Score as 0.
- No known population would be effected by contaminated groundwater from the site because no production of groundwater occurs at the site or within

three miles of the site. Any surface water contaminated would also not affect the population because it is more than three miles to the nearest intake for drinking water. Score as 0.

- Population within 1,000 feet of site is greater than 100 people. See question #45. Score as 3.
- Distance to the nearest base boundary is approximately 200-300 feet. Score as 3.
- 62. Groundwater would reach the storm drainage system in approximately 75 years and is then discharged to Lake St. Clair. Based on this, the score would be 1.
- The lake would be most likely to receive contaminated groundwater from the site. This would either occur via the storm drainage system or discharge of groundwater to the lake. This could affect fishing and spawning in Lake St. Clair. Score as 2.
- No known critical environments occur within one mile of the site. Score as 0.

Site identification: Northwest Landfill (Site 06) - NWLF

SU	GFACE WATER PATHWAYS				
<u>س</u> ـ		Score (circle	Multiplier	Product	Max. score
<u>003</u>	served releases	one)		mult.)	
1.	Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2.	0 100	1	100	100
Pat	hway characteristics				
2.	Distance to nearest surface water	0 1 2 3	4		12
3.	Net precipitation	0 1 2 3	1		3
4.	Surface erosion potential	0 1 2 3	4		12
5.	Rainfall intensity	0 1 2 3	4		12
6.	Surface permeability	0 1 2 3	3		9 ,
7.	Sum of items 2 through 6				48
8.	Normalized score (multiply item 7 x 100/48)				
9.	Flooding potential	0 1 2 3	8		24
10.	Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 100				
		•		100_	
	Waste containment effectiveness factor (Table 2)			0.8	
12.	Final score for surface water pathways (multiply ite	em 10 x item	n 11)	80	

COMMENTS ON SURFACE WATER PATHWAYS

All comments are presented on the typed pages following the scoring sheets for the NWLF.

Prepared by On D. Clander 9 Dec 88 Checked by RHG 12/9/88

INDWA:	TER PATHWAYS				
<u>Cbs</u>	erved releases	Score (circle one)	Multiplier	Product (score x mult.)	
13.	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	0 100	1	100	100
Path	way characteristics				
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0 1 2 3	9		27
15.	Permeability of the unsaturated zone	0 1 2 3	5		15
16.	Infiltration potential	0 1 2 3	5		15
17.	Sum of items 14 through 16	•		-	57
18.	Normalized score (multiply item 17 x 100/57)				
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water table				Max. score 100 27 15 15 57
		0 1 2 3	5		15
20.	Adjusted pathways score. If item 13 is 100, enter 1 If item 13 is 0, enter sum of items 18 and 19.	00.			27 15 15
	II sum exceeds 100, enter 100.			100	
	Waste containment effectiveness factor (Table 5)			1.0	
22.	Final score for groundwater pathways (multiply item :	20 x item 21	()	100	

COMMENTS ON GROUNDWATER PATHWAYS

Site identification: N	WLF
------------------------	-----

CONTAMINANT	HAZARD	SURFACE	WATER
-------------	--------	---------	-------

If contaminants have been detected in surface water (score of 100 in item 1), complete items 23 through 28. If contaminants have not been detected (score of 0 in item 1), complete items 29 through 32. Attach Hazard Worksheet or list of contaminants, as appropriate.

22		Score (circle one)	Result	Logarith (base 10
23.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	3620	21 <u>.5940</u>	5 <u>.558</u> 7
24.	Human health hazard score	0 1 2 46)	
25.	Normalized human health hazard score (multiply item 24 x 100/6)	_	100	
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		3. <u>8730</u>	2.7951
27.	Ecological hazard score	0 1 2 3		
28.	Normalized ecological hazard score (multiply item 27 x 100/5)	4(5)6	8 <u>3.333</u>	
29.	Maximum human health hazard index	0 1 2 3 4 5 6 7 8 9	Contami	inant:
30.	Normalized human health hazard score (multiply item 29 x 100/9)			
31.	Maximum ecological hazard index	0 1 2 4 5	Contami	nant:
32.	Normalized ecological hazard score (multiply item 31 x 100/6)			
con	INANT HAZARD GROUNDWATER taminants have been detected in groundwater (score of 100 in item 12)			
con ve n ntam	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard	2. Attach Ha	zard Worksh	ugh 38. If
con ve n ntam	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate.	2. Attach Ha	ems 33 thro zard Worksh	ugh 38. If eet or list 4.4956
con ve n ntam 33.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score	2. Attach Ha	zard Worksh	eet or list
con ve n ntam 33.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6)	3130	zard Worksh	eet or list
con ve n ntam 33.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score	3130 0 1 2 46	zard Worksh	eet or list
con ve n ntam 33. 34. 35.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of	3130 0 1 2 4 6 15.	2ard Worksh 06.5532	4.4956
con re n ntam 333.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)	3130 0 1 2 46 15.	2ard Worksh 06.5532	4.4956
con ntam 333. 334. 335.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6)	3130 0 1 2 46 15.	2828	4.4956
con ve n ntam 333. 334. 335.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/5) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score	3130 0 1 2 46 15.	26.5532 100 8228 6.667	4.4956 1.1993
con ntam 333. 34. 35.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6)	3130 0 1 2 46 15. 0 1 2 3 4 5 6	2828	4.4956 1.1993
con ntam 33. 34. 35. 36.	taminants have been detected in groundwater (score of 100 in item 13) of been detected (score of 0 in item 13), complete items 39 through 4 inants, as appropriate. Sum of human health hazard quotients (from column 10 of Hazard Worksheet) Human health hazard score Normalized human health hazard score (multiply item 34 x 100/6) Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet) Ecological hazard score Normalized ecological hazard score (multiply item 37 x 100/6) Maximum human health hazard index	3130 0 1 2 46 15. 0 1 2 3 4 5 6	2ard Worksh 06.5532 100 8228 6.667 Contamir	4.4956 1.1993

Site identification: NWLF

HUM	AN HEALTH RECEPTORS SURFACE WATER PATHWAY				
		Score (circle one)	Multiplier	Product (score x mult.)	Max. score
43.	Population that obtains drinking water from potentially affected surface water body(ies) within 3 miles (4.8 km) downstream	0 1 2 3	3	0	9
44.	Water use of nearest surface water body(ies)	0 123	3	6	9
45.	Population within 1000 ft (305 m) of the site	0 1 2(3)	1	3	3
6.	Distance to the nearest installation boundary	0 1 2 3	1	3	3
7.	Land use and/or zoning within 1 mile (1.6 km) of the site	0 1 2(3)	1	3	3
8.	Sum of items 43 through 47			<u>15</u> :	27
9.	Final score for human health receptors on surface water pathways (multiply item 48 x 100/27)		5 <u>5.556</u>		٠
CΟL	OGICAL RECEPTORS SURFACE WATER PATHWAYS				
0.	Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site	0 123	5	<u>10</u> 1	15
1.	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	0	3
2.	Sum of items 50 and 51		•	_10_ 1	.8
٤.	Final score for ecological receptors on surface water pathways (multiply item $52 \times 100/18$)			55.556	

COMMENTS ON SURFACE WATER RECEPTORS

Site identification: NWLF

עם הא	ALTH RECEPTORS GROUNDWATER PATHWAY	Score (circle one)	Multiplier	Product (score x mult.)
54.	Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s)	0 1 2 3	9	0
55 .	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	0 1 2 3	5	0
56.	Groundwater use of the uppermost aquifer	0 1 2 3	4	0
57.	Population potentially at risk from groundwater contamination	06 9 12 18 24 27 36	1	0
58.	Population within 1000 ft (305 m) of the site	0 1 2 3	•1	3
59.	Distance to the nearest installation boundary	0 1 2 3	1	3
60.	Sum of items 54 through 59			<u>. 6</u> g
61.	Final score for human health receptors on groundwater pathways (multiply item 60 x 100/96)			6.25
OGICA	L RECEPTORS GROUNDWATER PATHWAYS			
62.	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	0 1 2 3	3	3_
63.	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0 123	3	6
64.	Presence of "critical environments" within 1 mile (1.5 km) of the site $$\cdot$$	<u>о</u> з	1	0
65.	Sum of items 62 through 64			<u>9</u> 2
	Final score for ecological receptors on groundwater pathways			42.857

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

Site identification: NWLF

SCORING SUMMARY SHEET

		<u>Pa</u>	thways score		Contaminant hazard score	<u>R</u>	eceptors sco	re		Overall score
67.	Surface water/human health scores	(80 item 12	x	100 item 25/30	x	55.556 item 49)	/10,000 =	44.445
68.	Surface water/ecological scores	(80 :	x	83.333 item 28/32	x	55.556 item 53)	/10,000 =	37.037
69.	Groundwater/human health scores	(100 :	x	100 item 35/40	x	6.25 item 61)	/10,000 =	6.25
70.	Groundwater/ecological scores	(100 :	x	66.667	×	42.857)	/10,000 =	28.571

OVERALL SITE SCORE:

71.
$$\left(\frac{44.445}{\text{item }67}\right)^2 \times 5 + \left(\frac{37.037}{\text{item }68}\right)^2 + \left(\frac{6.25}{\text{item }69}\right)^2 \times 5 + \left(\frac{28.571}{\text{item }70}\right)^2 = \frac{12260.143}{1}$$

72. Overall site score
$$\sqrt{12260.143}/3.464 = 31.965 = 32$$

TABLE P-10 NWLF HAZARD WORKSHEET IRP STAGE 2 SELFRIDGE, MICHIGAN

6 BIOACCUMULATION FACTOR (L/KG)	280	4	32 310	099	50	200	0.69	240	4 '	7.7	120	150	290	100	700	7.7	430	100	780	120		1.7	5.7	77	83	17	7.	7.2	1000	
	5000 100				10	100	700						4	2000	200			200	37300				٠						2000	
5 CTS TERRESTRIAL EFFECTS BENCHMARK (ug/L)	360	14500	5300 160	1700	99.0	16 3	9.2 1120	2850	18000	135000	52100	2120	32000	400	350	193000	2300	1100	8280 55	28800		10000	0350	5280	200	45000	11000	381000 13500	180	
4 AQUATIC EFFECTS BENCHMARK (ug/L)		41	Λ	•			•	- ~	118	(S)			32		- '	193	2	- с	0				Ö	·kń	17	45	ľ	×n		
3 HEALTH EFFECTS BENCHMARK (ug/day)	30.040	0.15	30 10000	10000	20	0.016	0002	097	15	2.0 116	10000	9.6	2200	150	0.25	7	280	260	280	13	61.9	6800		7	54	75	11	1000	10000	
2 CONCENTRATION (ug/L)	330	333	٥	`-		**	çç						4	3250	1390			35												(0.0065 kg/day)
1 CONTAMINANT NAME CONTAMINANT HAZARD	NUM IC	- ·	BENZENE BISC2-ETHYLHEXYL)PHTHALATE	BUTYLBENZYLPHTHALATE	=	¥3.	K PRORENZENE	DICHLOROBENZENE	DICHLOROETHANE	DICHLOROETHENE Dichloroethorowethane	DIETHYLPHTHALATE	DIMETHYLPHENOL	ETHYLBENZENE		ES ES	LENE CHLORIDE	HALENE .		NI I KOPHENOL PENTACHLOROPHENOL	PET HYDRO (ASSUME JP-4)	PET HYDRO (ASSUME MOTOR OIL)	_ 6	SILVEN TETRACHLORDETHANE	TETRACHLOROETHENE	¥	TR I CHLOROETHENE	TRICHLOROFLUOROMETHANE	CHLORIDE	C.	= (col 2) x (2 L/day) = (col 2) x (col 6) x = (col 7) + (col 8) = (col 9) / (col 3)
† CONTAMINA NAME NWLF GROUNDWATER CONTAMINANT	ALUMINUM	BARIUM	BENZENE BISC2-E	BUTYLE	CADMIUM	CHROMIUM	COPPER 1 4- DICHIO		1,1- DICHLO	IKANS-1,2- DICHLO	DIETHY	2,4- DIMETH		NON .	LEAD	METHYLENE	NAPHTHALENE		PENTACHLORO	PET HY	PET HY	PHENOL	1.1.2.2- TETRAC		TOLUENE	TRICH	TRICH	VINYLC	ZINC	

TABLE P-10 (continued)
NWLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

11 12 AQUATIC TERRESTRIAL HAZARD HAZARD QUOTIENT QUOTIENT	0.0000 0.0660 0.0278 0.1000 0.0230 0.0000			0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 15.8228 8.1060
10 HEALTH A HAZARD H QUOTIENT QU	220.0000 955.0000 4497.7200		2557	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 31306.5532 4.4956
8 9 FOOD TOTAL INTAKE INTAKE (ug/day)	0.0000 660.0000 18.2000 38.2000 8.6580 674.6580	£ 11	861 635 9	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
7 DRINKING FO WATER INTAKE INT (UG/day) (UG/	660 20 26 666	. 2		0 0 0 0 0 0 0 0 0 0 (0.0065 kg/day)
CONTAMINANT NAME NWLF GROUNDWATER CONTAMINANT HAZARD	ALUMINUM ARSENIC BARIUM BENZENE	BIS (2-ETHYLHEXYL)PHTHALATE BUTYLBENZYLPHTHALATE CADMIUM CHROMIUM COPPER 1,4- DICHLOROBENZENE 1,3- DICHLOROBENZENE 1,1- DICHLOROETHANE		1,1,2,2- TETRACHLOROETHANE TOLUGNE TOLUGNE TRICHLOROETHENE TRICHLOROETHENE TRICHLOROELUOROMETHANE VINYL CHLORIDE XYLENES ZINC Col 7 = (col 2) x (2 L/day) Col 8 = (col 2) x (col 6) x (col 10 = (col 2) y (col 8) Col 10 = (col 2) / (col 3) Col 11 = (col 2) / (col 5)

TABLE P-11
NULF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

146000 3 5000 242 0.04 360 100 280 1310 0.15 14500 100 32 4 10000 1700 10 56 120 20 0.66 10 20 138 0.016 1120 200 20 140 10000 9.2 200 20 150 250 250 200 20 160 1120 200 210 20 160 1160 2850 20 210 1700 116 11000 20 7.2 110000 52100 112 7.2 200 2120 2120 112 200 2120 20 20 200 2120 20 4.4 200 24 40 800 100 200 24 40 800 100 200 250
0.15 14500 30 5300 10000 1700 1700 20 0.46 10 2000 9.2 200 460 2850 1460 2850 1460 2850 1460 2850 1460 2850 1460 1120 220 2200 2200 32000 34 5000 0.25 350 260 1100 5000 260 1100 200 260 1100 27 8280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 280 1100 280 1.2 13 28800 10 5380 20 1.2 10 9320 11 11000 11000 381000 16 13500 10 180 200 1
10000 1700 1700 10000 20 0.66 10 100 0.016 1120 460 1120 460 2000 9.2 200 460 1120 460 1120 2000 1160 1160 1160 1160 1160 2200 32000 2200 40 23000 2200 40 23000 200 0.25 3300 200 1100 200 0.7 8280 280 280 280 280 280 61.9 6800 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0 1100 0
200 0.66 10 100 1120 460 1120 460 1120 2850 1120 460 1120 2850 1120 2850 110000 5.10000 5.200 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11000 9.6 11.2 280 9.5 3.7300 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
2000 9.2 200 460 1120 460 2850 15 118000 2.6 135000 10000 52100 9.6 135000 10000 52100 1000 340 280 22300 280 23000 280 2300 280 2300 280 2300 280 2300 280 2580 280 2580 280 2580 280 2580 280 2580 280 2580 280 2580 280 11000 280 1.2 13 28800 280 10000 280 1.2 10 9320 4 5280 4 5280 11 11000 180 381000 16 13500 16 13500 16 13500 16 13500 16 13500 16 13500 16 13500 16 13500 16 180 2000 16 13500 16 13500 16 13500 16 13500 16 180 2000 16 180 2000 16 180 2000 16 180 2000 16 180 2000 16 180 2000 16 180 2000 17 11 11000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 2000 180 200
2000 460 1120 460 1120 460 118000 2.6 118000 10000 52100 9.6 11000 52100 9.6 1000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 100000 100000 1000000
460 2850 1120 2.6 135000 116 11000 10000 52100 9.6 2120 10000 32000 150 400 5000 150 400 5000 150 400 5000 280 3500 280 2300 280 2300 280 2300 280 2800 61.9 10000 20 1.2 10 9320 4 5580 4 5580 4 5580 60.015 4800 1000 1000 381000 1000 11000 180 200 11000 11000 180 200 11000 11000 180 200 11000 11000 180 200 11000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 180 2000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 110000 110000 11000 110000 110000 110000 110000 110000 110000 1100000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 1100000 110000 110000 110000 110000 110000 110000 110000 110000 110000
15 118000 2.6 135000 116 11000 10000 52100 9.6 2120 10000 32000 150 400 5000 100 34 0.25 350 40 280 2300 280 2300 280 2300 280 2300 280 1100 200 6800 10000 61.9 6800 10000 6.19 5280 4 5280 4 5280 4 5500 11 11000 1000 381000 16 13500 10000 10000 180 2000
2.6 135000 10000 52100 9.6 2120 10000 940 2200 32000 150 400 5000 100 34 5000 280 2300 280 2300 280 1100 200 60.7 8280 280 10000 61.9 10000 61.9 1.2 10 9320 4 5280 4 5500 11 11000 1000 381000 16 13500 1000 180 200
10000 52100 9.6 2120 10000 940 2200 32000 150 400 5000 100 34 5000 100 34 5000 280 2300 280 2300 280 1100 200 60.7 8280 61.9 1000 61.9 1000 61.9 1.2 6800 1000 6.1.9 1.2 6800 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.1.9 1000 6.
9.6 2120 10000 940 2200 32000 150 400 5000 100 34 5000 0.25 350 200 280 2300 280 1000 200 0.7 8280 55 37300 6800 10000 6800 10000 6800 10000 1.2 24 17500 4 5280 4 5280 4 5280 1.2 4 17500 1.1 11000 0.015 4800 100 0 1000 381000 16 13500
10000 940 2200 32000 150 400 5000 100 34 5000 0.25 350 200 4 193000 280 2300 280 2300 280 280 55 13 28800 61.9 10000 20 1.2 10 9320 4 5280 4 5280 4 17500 4 17500 1000 381000 1000 180 2000 1
2200 32000 15000 100 0 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000
150 400 5000 100 34 5000 6.25 350 200 280 2300 280 2300 6.7 8280 61.9 55 37300 61.9 10000 20 1.2 10 9320 4 5280 4 5280 4 5280 4 5280 1 1 11000 1 1 11000 1 1 1500 1 1 1500 1 1 11000 1 1 1500 1 1 11000 1 1 11000 1 1 11000
0.25 350 200 4 193000 280 2300 260 1100 200 0.7 8280 6800 10000 20 1.2 10 9320 42 4500 11 11000 0.015 4800 1000 381000 16 13500
280 2300 280 2300 260 1100 200 0.7 8280 280 55 37300 61.9 10000 20 1.2 20 1.2 24 17500 42 4500 11 11000 381000 16 13500 10000 180 2000 1
280 2300 260 1100 200 0.7 8280 280 55 37300 61.9 10000 20 1.2 10 9320 4 5280 42 45000 11 11000 381000 16 13500 10000 180 2000 1
260 1100 200 0.7 8280 200 280 55 37300 61.9 10000 20 1.2 10 9320 4 5280 42 45000 11 11000 381000 16 13500 10000 180 2000 1
280 55 37300 280 55 37300 61.9 10000 20 1.2 10 9320 4 5280 24 17500 42 45000 11 11000 381000 16 13500 10000 180 2000 1
61.9 6800 10000 20 1.2 10 9320 4 5280 24 17500 42 45000 0.015 4800 1000 381000 16000 180 2000 1
61.9 6800 10000 20 1.2 10 9320 24 17500 42 45000 0.015 4800 100 0 1000 381000 1000 180 2000 1
6800 10000 20 1.2 4 5280 24 17500 11 11000 0.015 4800 1000 381000 10000 180 2000 1
20 1.2 4 5280 24 17500 42 45000 11 11000 0.015 4800 1000 381000 16 13500 10000 180 2000 1
7.20 2.4 5.280 2.4 17500 4.2 45000 1.1 11000 0.015 4800 1000 381000 16 13500 10000 180 2000 1
24 17500 42 45000 11 11000 0.015 4800 100 0 1000 381000 16 13500 10000 180 2000 1
42 45000 11 11000 0.015 4800 100 1000 381000 16 13500 10000 180 2000
0.015 4800 100 1000 381000 16 13500 2000
1000 381000 100 16 13500 2000
16 13500 10000 180 2000
10000 180 2000

TABLE P-11 (continued)
NWLF HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

CONTAHINANT NAME NALF SURFACE WATER CONTAHINANT HAZARD		7 DRINKING WATER INTAKE (Ug/day)	8 F000 INTAKE (ug/day)	9 TOTAL INTAKE (ug/day)	10 HEALTH HAZARD QUOTIENT	11 AQUATIC HAZARD QUOTIENT	12 TERRESTRIAL HAZARD QUOTIENT
ALUMINUM		292000	0.000	292000.0000	97333.3333	0.0000	29.2000
BARIUM		484 26 20	34.0600	924.4400	23111.0000	0.6722	2.4200
BENZENE		0	000000	00000	0.000	0.000	0.000
BUTYLBENZYLPHTHALATE		∞ ;	17.1600	25.1600	0.0025	0.0024	00000
CADMIUM		07	9.5000	46.5000	2.3250	30.3030	2.0000
CORPER		376	244.4000	620.4000	38775,0000	11.7500	1.8800
		9/5	324.8700	800,8700	0.4004	25.8696	1.1900
1,4- DICALOROBENZENE		0 0	0.0000	0.0000	0.0000	00000	0.000
1,1- DICHLOROETHANE		-	0,000	0.000	0.000	0.000	0.0000
TRANS-1, 2- DICHLOROETHENE		0	0000.0	0.000	0000	0.000	00000
		0	0.000	0.000	0.000	0,000	0000
		0	0.000	0.000	00000	0.0000	0.000
Z,4- DIMETHYLPHENOL		0 (0.000	0.000	0.000	0.000	0.000
DI-N-BUITLFHIHALAIE ETAVI DENZENE		~ 0	0.5785	2.5785	0.0003	0.0011	0.000
IRON		000807	0.0000	0000 0000	0.0000	00000	0.0000
LEAD		1184	1154.4000	2338 4000	3504.0000	17 7.118	40.8000
MANGANESE		15560	20228.0000	35788.0000	143152.0000	22.2286	38 9000
METHYLENE CHLORIDE .		0	0.000	0.000	0.000	0.000	0000-0
NAPHTHALENE		7	5.5900	9.5900	0.0343	0.0009	0.000
		538	174.8500	712.8500	2.7417	0.2445	1.3450
4 - NITROPHENOL		0 (0.0000	0.000	0.000	0.000	0.000
PENIACHLORUPHENOL DET HYDRO (ASSUME 18-2)		0 0	0.0000	0.0000	0.0000	0.0000	0.000
	MOTOR OIL)	3400	0000	3400 0000	0.0000	0.0000	0.0000
	•	0	0,000	0.000	0.0000	0000	0000
		0	0.000	0.000	0.000	0.000	0.000
1,1,2,2- TETRACHLOROETHANE		0	0.0000	0.000	0.000	0.000	0.000
TOTTENE		0 0	0.0000	0.000	0.0000	0.0000	0.000
TRICHLOROETHENE		0	0000	0000	0,000	0,000	0.0000
TRICHLOROFLUOROMETHANE		0	0,000	0.000	0.000	0.000	0000
VANDALIUM		574	0.0187	574.0187	38267.9103	0.0598	2 8700
VINYL CHLORIDE		0	0.000	0.000	0.000	0.000	0.000
XYLENES		0	0000.0	0.000	0.000	0.000	0.000
ZINC		1886	6129.5000	8015.5000	0.8016	5.2389	0.4715
7 = (col 2) x 8 = (col 2) x	/day) 6) x (0.0065 kg/day)	ดร	SUMS = LOG OF SUMS =	362021.5940	623.8730	121.1949
Col 9 = (col 7) + (col Col 10 = (col 9) / (col Col 11 = (col 2) / (col Col 11 = (col 2) / (col Col Col Col Col Col Col Col Col Col C	7 3 3 7						
12 = (col 2) /							

East Ramp (ERMP) Defense Priority Model List of Comments Used to Justify Scoring

Item Number Comment 1. Contaminants have been detected in the surface water at the ERMP. Contaminants include petroleum hydrocarbons, xylenes, toluene, ethylbenzene and benzene. Score as 100. 11. The ERMP is the site of a former fuel spill. Score under the waste containment effectiveness factor category as a spill. No known cleanup action has occurred at the site. Contaminants may be exposed at the surface and could be transported by stormwater runoff into the storm drainage network. These waters are untreated and would be discharged either into Lake St. Clair or the Clinton River. Score as 1.0. 13. Contaminants have been detected in groundwater. These contaminants were petroleum hydrocarbons and ethylbenzene. Score as 100. 21: No known containment features exist at the site. None were constructed as a result of the spill. Thus, contaminants are uncontained. No known groundwater cleanup action has been undertaken. No engineered covering of the spill site is known to have occurred. Score as 1.0. 23-42. Scores based on Contaminant Hazard Scoring Sheets for groundwater and surface water using sums and logs of benchmarks and intakes. 43. No drinking water is obtained from surface water within three miles of the site. The city intake is more than three miles from the site. scoring is based on both the Clinton River and Lake. St. Clair surface water because stormwater is discharged, untreated, into both water bodies by the storm drainage system. 44. The lake and river are used for recreational

45.

fishing.

treatment plant intake. Score as 2.

It is greater than 3 miles to the water

The population within 1,000 feet of the site is

greater than 100 people. This would include both a daytime population and resident population

living on the base. Daytime population includes ground maintenance people and workers in buildings and hangers around the perimeter of the site. Score as 3.

- Distance to the nearest base boundary is approximately 800 feet. Score as 3.
- Dominant land use within one mile of the site is residential. Score as 3.
- Lake St. Clair would have the closest biota and habitats possibly affected by surface water discharged from the ERMP. The stormwater lift pump stations discharge untreated stormwater from the site into the lake as well as the river. This could affect spawning, fishing and the general management of the lake. Score as 2.
- No known critical environments occur within one mile of site. Score as 0.
- There are no known wells downgradient of the site. Wells within one mile of the site are not known to be used for supplying drinking water, because all domestic water is supplied by the city water plant. Score as 0.
- Based on potentiometric map information groundwater is intercepted by the stormwater drainage system and is then discharged to the lake or river. The estimated time for groundwater to be intercepted is approximately 4.7 to 7.1 years. However, there are no surface water intakes within three miles of a discharge point on either the lake or river. Score as 0.
- The groundwater below the ERMP is not being used for any domestic or drinking purpose. Water is supplied by the city. No wells within one mile of the site are known to produce drinking water. Score as 0.
- No population would be at risk because the groundwater beneath the site is not being used. No wells are producing this water. Domestic water is supplied by the city. No downgradient users of water are known to exist. Score as 0.
- 58. See question #45. Population within 1,000 feet of the site is greater than 100. Score as 3.

- 59. See question #46. Distance to the nearest base boundary is 800 feet. Score as 3.
- 62. Estimated time for groundwater to reach the storm drainage system and be discharged to the lake or river is approximately 4.7 to 7.1 years. Score as 3.
- Groundwater would be discharged both to Lake St. Clair and the Clinton River. Discharge to the lake could affect fish and spawning. Lake St. Clair is a managed area for fishing. Score as 2.
- No known critical environments occur within one mile of the site. Score as 0.

Site identification: East Ramp (Site 07) - ERMP

		-	-				
SU	RFACE WATER PATHWAYS						
		_	co		Multiplier	Product	Max.
<u>Ob</u> :	served releases	-	one	ile)		(score x mult.)	SCOTE
1.	Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2.	0		100	1	100	100
Pat	thway characteristics						
2.	Distance to nearest surface water	0 :	1 2	3	4		12
3.	Net precipitation	0 :	l 2	3	1		3
4.	Surface erosion potential	0 1	2	3	4		12
	Rainfall intensity	0 1	. 2	3	4		12
	Surface permeability	0 1	. 2	3	3		9
	Sum of items 2 through 6						48
8.	Normalized score (multiply item 7 x 100/48)						
9.	Flooding potential	0 1	2	3	8		24
10.	Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 100					100	
	Waste containment effectiveness factor (Table 2)					1.0	
12.	Final score for surface water pathways (multiply ite	m 1	0 x	iten	11)	100	

COMMENTS ON SURFACE WATER PATHWAYS

All comments are presented on the typed pages following the scoring sheets for the ERMP.

Prepared by and Clarke 9Dec 38 Checked by RHG 12/9/88

Site identification: ERMP

NDWAT	TER PATHWAYS				
Obse	erved releases	Score (circl one)	.•	er Product (score x mult.)	Ma sc
13.	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	0 (1	<u> </u>	100	1
Path	way characteristics				
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0 1 2	3 g		
15.	Permeability of the unsaturated zone	0 1 2	3 5		
16.	Infiltration potential	0 1 2 :	3 5	-	:
17.	Sum of items 14 through 16			***	
18.	Normalized score (multiply item 17 x 100/57)		•		
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water table	0 1 2 3	3 5		1
20.	Adjusted pathways score. If item 13 is 100, enter 1 If item 13 is 0, enter sum of items 18 and 19. If sum exceeds 100, enter 100.	.00.		100	
21.	Waste containment effectiveness factor (Table 5)			1.0	
22.	Final score for groundwater pathways (multiply item	20 x ite	m 21)	100	

COMMENTS ON GROUNDWATER PATHWAYS

Site	identification: ERMP			
CONTA	MINANT HAZARD SURFACE WATER			
	ontaminants have been detected in surface water (score of 100 in item : minants have not been detected (score of 0 in item 1), complete items ontaminants, as appropriate.	1), complet 29 through	e items 23 thr 32. Attach H	ough 28. If azard Worksheet or lis
22		Score (circle	Result	Logarithm (base 10)
23.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)		10 <u>14.82</u> 83	3.0064
24.	Human health hazard score	0 1 2 4	5)	
25.	Normalized human health hazard score (multiply item 24 x 100/5)		100	
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		<u>0.179</u> 9	-0.7449
27.	Ecological hazard score	0 1 2 3		
28.	Normalized ecological hazard score (multiply item 27 x 100/6)	4 5 6	3 <u>3.333</u>	
29.	Maximum human health hazard index	0 1 2 3 4 5 6 7 8 9		
30.	Normalized human health hazard score (multiply item 29 x 100/9)		Concamin	ant:
	Maximum ecological hazard index	0 1 2 4 6	Contamin	ant:
32.	Normalized ecological hazard score (multiply item 31 x 100/6)			

CONTAMINANT HAZARD -- GROUNDWATER

If contaminants have been detected in groundwater (score of 100 in item 13), complete items 33 through 38. If contaminants have not been detected (score of 0 in item 13), complete items 39 through 42. Attach Hazard Worksheet or list of

33.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)		427.7029	2.6311
34.	Human health hazard score	0 1 2 4	6)	
	Normalized human health hazard score (multiply item 34 x 100/6)	•	100	
36.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		0.0696	- 1.1572
37.	Ecological hazard score	0 2 3		
38.	Normalized ecological hazard score (multiply item 37 x 100/5)	4 5 6	<u>16.6</u> 67	
39.	Maximum human health hazard index	0 1 2 3 4		nant ·
40.	Normalized human health hazard score (multiply item 39 x 100/9)			
41.	Maximum ecological hazard index	0 1 2 4 5	Contami	nant ·
42.	Normalized ecological hazard score (multiply item 41 x 100/6)		301.04111	

Site identification: ERMP

HUMAN IEALTH RECEPTORS SURFACE WATER PATHWAY	Score (circle one)	<u>Multiplier</u>	Product (score x mult.)	Max. score
43. Population that obtains drinking water from potentially affected surface water body(ies) within 3 miles (4.8 km) downstream	0 1 2 3	3	0	9 ,
44. Water use of nearest surface water body(ies)	0 123	3	6	9
45. Population within 1000 ft (305 m) of the site	0 1 2 3	1	3	3
45. Distance to the nearest installation boundary	0 1 2 3	1	3	3
47. Land use and/or zoning within 1 mile (1.6 km) of the site	0 1 2(3)	1	3	3
48. Sum of items 43 through 47			15	27
49. Final score for human health receptors on surface water pathways (multiply item 48 x 100/27)		5 <u>5.556</u>		
ECOLOGICAL RECEPTORS SURFACE WATER PATHWAYS				
50. Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site .	0 123	5	10	15
51. Presence of "critical environments" within 1 mile (1.6 km) of the site	<u>о</u> з	1	0	3
52. Sum of items 50 and 51			10	18
53. Final score for ecological receptors on surface water pathways (multiply item 52 x 100/18)		5	5.556	

COMMENTS ON SURFACE WATER RECEPTORS

Site identification: ERMP

	EALTH RECEPTORS GROUNDWATER PATHWAY	S		•
		Score (circle one)	Multiplier	Product Ma (score x sc mult.)
54	 Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s) 	0123	9	027
55	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	0 1 2 3	5	0 15
56.	Groundwater use of the uppermost aquifer	(O)1 2 3		2
57.	Population potentially at risk from groundwater contamination	_	4	
		0 6 9 12 18	1	0
58.	Population within 1000 ft (305 m) of the site	24 27 36		
	Distance to the nearest installation boundary	0 1 2(3)	1	<u>3</u> 3
	Sum of items 54 through 59	0 1 23	1	<u>3</u> 3
61.	Final score for human health receptors on groundwater pathways (multiply item 60 x 100/98)			<u>6</u> 96
OGTC	1 PECEPTOR			6.25
	L RECEPTORS GROUNDWATER PATHWAYS			
	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	0 1 2(3)	3	9_
63.	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0 123	3	6_ g
64.	Presence of "critical environments" within 1 mile (1.6 km) of the site		1	Оз
65.	Sum of items 62 through 64			···········
66.	Final score for ecological receptors on groundwater pathways (multiply item 65 x 100/21)			15 21 71.429

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

SCORING SUMMARY SHEET

•		Pat	hways scor	<u>.</u>	Contaminant hazard score	R	eceptors sco	re		Overall score
67.	Surface water/human health scores	(100 item 12	×	100 item 25/30	x	55.556 item 49)	/10,000 =	55.556
68.	Surface water/ecological scores	(100 item 12	x	33.333 item 28/32	x	55.556 item 53)	/10,000 =	18.518
69.	Groundwater/human health scores	(100 item 22	x	100 item 35/40	x	6.25 item 61)	/10,000 =	6.25
70.	Groundwater/ecological scores	(100 item 22	x	16.667 item 38/42	x	71.429 item 66)	/10,000 =	11.905

OVERALL SITE SCORE:

71.
$$(\frac{55.556}{\text{item } 67})^2 \times 5 + (\frac{18.518}{\text{item } 68})^2 + (\frac{6.25}{\text{item } 69})^2 \times 5 + (\frac{11.905}{\text{item } 70})^2 = \frac{16112.183}{}$$

72. Overall site score
$$16112.183/3.464 = 36.644 = 37$$

TABLE P-12
ERMP HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

6 BIOACCUMULATION IARK FACTOR (L/KG)	100 280	* \$	960	10 50		200 210		240	14	7.2	∞ :	120	150	290	005 0000	7.7		200 002		57300 780	031	1.7	7	7.9	77	83	17	7/	7.2	2000 1000					•
5 TERRESTRIAL EFFECTS BENCHMARK (ug/L)	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																														1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
4 AQUATIC EFFECTS BENCHMARK (ug/L)	360	0025	1700	99.0	16	9.5	1120	2850	118000	135000	11000	52100	0212	22000	\$0	193000	0057	1100	020	5880 -	00007	10000	1.2	9320	5280	17500	45000	11000	381000	180	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
3 HEALTH EFFECTS BENCHMARK (ug/day)	0.04	30	10000	20	0.016	2000	097	097	15	5.6	116	10000	9.6	700	99	7 000	780	700	0	280	0 17	9089	20	10	4	54	75	11	1000	10000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
2 CONCENTRATION (ug/L)														•						0000											2 4 3 5 6 8 9 1 1 1 1 1 1	(0.0065 kg/dav)			
1 CONTAMINANT NAME ERMP GROUNDWATER CONTAMINANT HAZARD	ARSENIC	BENZENE	BUTYLBENZYLPHTHALATE	CADMIUM	CHROMIUM	COPPER		- DICHLOROBENZENE	- DICHLOROETHANE	- DICHLOROETHENE	DICHLOROFLUOROMETHANE			EIKYLBENZENE	LEAU	METHYLENE CHLORIDE	NAFE EALENE	NICKEL	NI I KUPRENUL	PENIACHLOROPHENOL DET HYDRO (ASSING 10-6)			SILVER	TETRACHLOROE	TETRACHLOROETHENE	TOLUENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINTL CHLORIDE	ZINC		Col 8 = (col 2) x (2 L/day) Col 8 = (col 2) x (col 6) x	9 = (col 7) + (col	10 = (col 9) / (col	(5 los) / (col 4)
ERMP GROUP							1,4.	1,3-	1,1	TRANS-1,2.		·	-4'7					`	÷					1,1,2,2-											

TABLE P-12 (continued)
ERMP HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

ERMP GROUN	1 CONTAMINANT NAME ERMP GROUNDWATER CONTAMINANT HAZARD	7 DRINKING WATER INTAKE (ug/day)	8 FOOD INTAKE (ug/day)	9 TOTAL INTAKE (ug/day)	10 HEALTH HAZARD QUOTIENT	11 AQUATIC HAZARD QUOTIENT	12 TERRESTRIAL HAZARD QUOTIENT
	ARSENIC	00	0.0000	0.000	0.0000	0.0000	0.000
	BENZENE		0000	0,000	0000	0000	0000
	BUTYLBENZYLPHTHALATE	0	0.000	0,000	0.000	0.000	0.0000
	CADMIUM	0	0.0000	0,0000	0.000	0,000	00000
	CHROMIUM	0	0.000	00000	0.000	0.000	00000
	COPPER	0	0.000	0.000	0.000	0.0000	00000
1,4-	DICHLOROBENZENE	0	0.000	0.000	0.000	0.000	0000
1,3-	DICHLOROBENZENE	0	0.000	00000	0.000	00000	0.000
1,1	DICHLOROETHANE	0	0.000	0.000	0.000	00000	0.000
TRANS-1,2-	DICHLOROETHENE	0	0.000	0.000	0.000	0.000	0.000
•	DICHLOROFLUOROMETHANE	0	0.000	0.000	0.000	0.000	0000
•		0	0.000	0.000	0000.0	0.000	0.000
5,4-		0	0,000	0.000	0.000	0.000	00000
		12	11.3100	23.3100	0.0106	0.0002	0000
	LEAD	0	0.000	0.000	0.000	0.000	0.000
•	METHYLENE CHLORIDE	0	0.000	0.000	0000.0	0.000	0.0000
	NAPHTHALENE	0	0.000	0000.0	0.000	0.000	0.000
	NICKEL	0	0,000	0000.0	0.000	0.000	0.000
-7	NITROPHENOL	0	0.000	0.000	0.000	0,000	0.000
		0	00000	0.000	0.000	0,000	0.0000
	PET HYDRO (ASSUME JP-4)	7000	1560.0000	5560.0000	427.6923	0.0694	0.000
	PET HYDRO (ASSUME MOTOR OIL)	0	0.000	0000.0	0.000	0.000	0.000
	PHENOL	0	0.000	0000.0	0000.0	0.000	0.000
•		0	0.0000	0000.0	0.000	0.000	0.000
1,1,2,2-		0	0.000	0000.0	0.000	0000.0	0.000
	TETRACHLOROETHENE	0	0.000	0.0000	0.000	0.000	0.000
	TOLUENE	0	0.0000	0000.0	0.000	0.000	0.000
	TR I CHLOROETHENE	0	0.000	0.000	0.000	0.000	0.0000
	TRICHLOROFLUOROMETHANE	0	0.000	0.000	0.000	0.000	0.000
	VINYL CHLORIDE	0	0.000	0000.0	0.000	0.000	0.0000
	XYLENES	0	0.000	0000.0	0.000	0000	0.0000
	ZINC	0	0.0000	0.000	0.0000	0.000	0.000
	Col 7 = (col 2) x (2 (dav)		<i>\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\over</i>		0602 267	0 0404	0000 0
	$8 = (col 2) \times (col 6) \times$	(0.0065 kg/day)	3 =		751.135	-1 1572	0000.0
	9 = (col 7) + (col 8)	,				1	
	10 = (col 9) /						
	11 = (col 2) /						
	12 = (col 2) / (

TABLE P-13
ERMP HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

RMP SURFA	CONTAMINANT NAME NAME ERMP SURFACE WATER CONTAMINANT HAZARD	CONCENTRATION (ug/L)	HEALTH EFFECTS BENCHMARK (ug/day)	AQUATIC EFFECTS BENCHMARK (ug/L)	TERRESTRIAL EFFECTS BENCHMARK (ug/L)	BIOACCUMULATION FACTOR (L/KG)	10 E
	ARSENIC	1 1 1 1 1 1 1 1 1 1	0.04	360	100		280
	BARIUM	;	0.15	14500			4
	BENZENE	\$5	30	5300			32
	BUTYLBENZYLPHTHALATE	•	10000	1700			8
	CADMIUM		02	99.0	2		20
	CHROMIUM		0.016	16	100		200
	COPPER		2000	9.5	200		7
1,4-	ROBENZ		760	1120			9
1,3	DICHLOROBENZENE		097	2850			772
1,1	1,1- DICHLOROETHANE		5	118000			. 7
RANS-1,2-	DICHLOROETHENE		2.6	135000			7
•	DICHLOROFLUOROMETHANE		116	11000			
	DIETHYLPHTHALATE		10000	52100			120
-5'7	DIMETHYLPHEN	•	9.6	2120			150
•	ETHYLBENZENE	20	2200	32000			290
	LEAD		100	34	2000		30
	METHYLENE CHLORIDE		7	193000			7.7
	NAPHTHALENE		280	2300			430
	NICKEL		260	1100	200		100
- 7	NITROPHENOL		0.7	8280			
	ENOL		280	55	37300		780
	PET HYDRO (ASSUME JP-4)	0097	13	28800			120
	PET HYDRO (ASSUME MOTOR OIL)		61.9				
	PHENOL		0089	10000			1.7
	SILVER		20	1.2			. ~
1,1,2,2-	TETRACHLOROETHANE		10	9320			7
	TETRACHLOROET		7	5280			77
	TOLUENE	178	57	17500			83
	TRICHLOROETHENE		75	45000			17
	TRICHLOROFLUOROMETHANE		=	11000			2
	HLOR I		1000	381000			7.2
	XYLENES	38	16	13500			320
	(22.5		10000		0000		1 6

Col 7 = (col 2) x (2 L/day)
Col 8 = (col 2) x (col 6) x (0.0065 kg/day)
Col 9 = (col 7) + (col 8)
Col 10 = (col 9) / (col 3)
Col 11 = (col 2) / (col 4)
Col 12 = (col 2) / (col 5)

P-89

TABLE P-13 (continued)
ERMP HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

ERMP SURFA	1 CONTAHINANT NAME ERMP SURFACE WATER CONTAHINANT HAZARD	7 DRINKING WATER INTAKE (Ug/day)	8 FOOD INTAKE (ug/day)	9 TOTAL INTAKE (ug/day)	10 HEALTH HAZARD QUOTIENT	11 AQUATIC HAZARD QUOTIENT	12 TERRESTRIAL HAZARD QUOTIENT
	ARSENIC	00	0.0000	0.0000	0000	0000.0	0,000
	BENZENE	ê 2	7.2800	77.2800	2.5760	0.0066	0000.0
	BUTYLBENZYLPHTHALATE		0.000	0,000	00000	00000	0.000
	CADMIUM	0	0.000	0,000	0.000	0.000	0.000
	CHROMIUM		0.000	0,000	00000	0.000	00000
	COPPER	0	00000	0.000	0.000	0.000	0.000
1,4-	DICHLOROBENZENE	0	0.000	0.000	0.000	0.000	0.000
1,3-	DICHLOROBENZENE	0	0.000	0.000	0000.0	0.000	0.000
-,1	DICHLOROETHANE	0	0,000	0.0000	0.000	0000	0000.0
TRANS-1,2-		0	0.000	0.000	0.000	0000.0	0.000
		0	0.000	0.000	0.000	0.000	0000.0
		0	0.000	0.000	0.000	0.000	0.000
-5'7	DIMETHYLPHENOL	0	00000	0.000	0.000	0000	0.000
		07	37.7000	77.7000	0.0353	0.000	0.000
	LEAD	0	0.000	0.000	0.000	0.000	0.000
	METHYLENE CHLORIDE	0	0.000	0.000	0.000	0.000	0000.0
	NAPHTHALENE	0	0.0000	00000	0.0000	0.0000	0.000
•		0	0.000	0.0000	0.0000	0.000	0.000
- 7		-	0.0000	0.0000	0.000	0.000	0,000
		0000	00000	0.000	0000.0	0.0000	0.0000
	PEI HIDRO (ASSUME JP-4)	0024	0000	0000	0000	0.000	00000
			0000	0.000	0.000	0.000	0000
	SILVER		0.000	0.000	0.000	0.000	0.000
1.1.2.2-		0	0,000	0.000	0,000	0000	0000
	TETRACHLOROETHENE	0	0.0000	0.0000	0.000	0.000	0.0000
	TOLUENE	356	96.0310	452.0310	. 18.8346	0.0102	0.000
	TRICHLOROETHENE	0	00000	0.000	0.000	0000.0	00000
	TRICHLOROFLUOROMETHANE	0	0,0000	0.000	00000*0	0000	0.000
	VINYL CHLORIDE	0	0.000	0.000	0.000	0000.0	0.000
	XYLENES	92	79.0400	155.0400	0069.6	0.0028	0.000
	ZINC	0	0000.0	0.0000	000000	0.000	0,000
	Col 7 = (col 2) x (2 L/dav)	, , , , , , , , , , , , , , , , , , ,		SUMS =	1014.8283	0.1799	0000.0
	8 = (col 2) x	(0.0065 kg/day)	-	LOG OF SUMS =	3.0064	-0.7449	ERR
	6 = (col 7) +	•					
	7 (6 100) = 01						
	Col 11 = (col 2) / (col 4)						
	7						

Base Coal Storage Pile (BCSP) Defense Priority Model List of Comments Used to Justify Scoring

Item <u>Number</u>	Comment
1. ·	No surface water samples were collected at the BCSP. Score as 0 and proceed to questions #2-9.
2.	Surface water from the site would be drained and intercepted by the stormwater drainage system. It would then be discharged to the Clinton River. Distance is approximately 5,000 feet. Score as 1.0.
3.	Net precipitation at the base is approximately -1.9 inches. Score as 1.0.
4.	Site is relatively flat with no evidence of rills or vegetation cover. Runoff from site does occur. Score as 1.0. Surface slopes are 2% or less. Particle sizes are large, gravel size pieces of coal.
5.	The rainfall intensity for the area/site is approximately 2.2 inches. Score as 2.
6.	Surface permeabilities of the soils are approximately 10 to 10 cm/sec. Assume average clay content of 30-50%. Hydraulic conductivity of material around BCSP well screens was determined to be 10 cm/sec. Score as 2.
9.	Maps do not indicate flood potential of area at base. Structures exist to prevent flooding and stormwater drainage system discharges excess surface water from the base. Score as 0. Also IRP Presurvey Report, May 1984 reported the area to be outside 100-year floodplain.
11.	No category for the coal pile. Therefore; will treat as a spill site with the coal representing the "spill material" or "contaminant." The coal is exposed and any runoff from the site would not be collected for treatment. Stormwater drainage system would collect the runoff and discharge it, untreated, into the Clinton River. Score as 1.0.

- 13.-20. Score here in based on Contaminant Hazard Score Sheet for groundwater contaminants detected at the site. Contaminants detected were bis(2-ethylhexyl)phthalate, di-n-butylphthalate, pyrene, and elevated metal concentrations. Score as 100.
- 21. According to the scoring guidance a score of 1.0 should be assigned because contaminants are present in the groundwater and no cleanup action has occurred. Score as 1.0.
- No surface water samples were collected. Proceed to questions #29-32 to determine the score.
- Determine the score based on contaminants detected in the groundwater. Log base 10 of health effect benchmark (5644.5) is 4.7516. The log base 10 of the bioaccumulation factor (2221.8) is 3.3467. Score as 2.
- 31. Using highest toxicity benchmark, which is for aquatic hazard, the sum is 34.0480 and its log base 10 is 1.5321. The score is 4.
- No drinking water is obtained from surface water sources within three miles of the site.

 Therefore, no population would be effected. Score as 0.
- Nearest surface water bodies are the Clinton River and Lake St. Clair. These serve as an area for fishing and other recreational uses. The nearest location for the intake of drinking water occurs more than six miles from this site. Score as 2, because it is >3 miles to the drinking water intake.
- Population within 1,000 feet of the site is greater than 100. The population is mainly day-time workers in the engineering building, plumbing shop, paint shop, ground maintenance building and other base buildings. Score as 3.
- Distance to nearest base boundary is approximately 2,500 feet. Score as 3.
- 47. Land use within one mile of the site is dominantly residential. Score as 3.

- 50. Surface water from the site would be directed towards the Clinton River. The stormwater drainage system would intercept and discharge untreated water to the river. Score as 1.0.
- No known critical environments occur within one mile of the site. Score as 0.
- No groundwater from the BCSP site that is potentially contaminated would effect any groundwater well because no producing drinking water wells are known to be downgradient. No wells are known to produce groundwater on the base. Water is supplied by city. Score as 0.
- Groundwater interception by the storm drainage system would occur in approximately 4.95 to 7.43 years. This is based on a depth of 10-15 feet for the sewer beneath the BCSP. Groundwater which is intercepted would then be discharged to the Clinton River. However, no surface water is used for drinking or ag/aquaculture within three miles. Score as 0.
- Groundwater beneath the BCSP is not currently being produced for use. Wells within one mile of the site do not produce water for domestic drinking purposes. Score as 0.
- No known population would be effected because groundwater is not being used at the site or downgradient of it. Public water is supplied to the base and the area within one mile of the base by the city treatment plant. Score as 0.
- Population greater than 100, see question 45. Score as 3.
- Distance to nearest base boundary is approximately 2,500 feet. Score as 3.
- The estimated travel time based on groundwater flow, interception by storm drainage system and then discharge to river would be between 4.95 and 7.43 year. See question #55. Score as 3.
- 63. See question #50. Clinton River would be affected. Score as 1.0.
- No known critical environments occur with one mile of the site. Score as 0.

Site identification: Base Coal Stroage Pile (Site 08) - BCSP

SU	RFACE WATER PATHWAYS					_
	served releases	Score (circle one)	Multiplier	Product (score x mult.)	Max. score	
1.	Have contaminants been detected in surface water? If yes, assign score of 100 and proceed to item 10. If no, assign score of 0 and proceed to item 2.	0 100	1	0	100	
Pat	hway characteristics					
2.	Distance to nearest surface water	0(1)2 3	4	4	12	
3.	Net precipitation	0 2 3	1	1	3	
4.	Surface erosion potential	0 1 2 3	4	4	12	
5.	Rainfall intensity	0 123	4	8	12	
6.	Surface permeability	0 123	3	6	9	
7.	Sum of items 2 through 6			23	48	
8.	Normalized score (multiply item 7 x 100/48)			47.917		
9.	Flooding potential	0 1 2 3	8	0_	24	
10.	Adjusted pathways score If item 1 is 100, enter 100. If item 1 is 0, enter sum of items 8 and 9. If sum exceeds 100, enter 100) .		<u>47.91</u> 7		
11.	Waste containment effectiveness factor (Table 2)			1.0		
12.	Final score for surface water pathways (multiply it	em 10 x item	11)	47.917		
_						

COMMENTS ON SURFACE WATER PATHWAYS

All comments are presented on the typed sheets following the scoring sheets for the BCSP.

Prepared by Con Dellandon 9De 88 Checked by RHG 12/4/88

Site identification: BCSP

GROUNDWATER	PATHWAYS

	served releases	Score (circl one)	<u>Multiplier</u>	Product (score x mult.)	Max. score
13,	Have contaminants been detected in groundwater? If yes, assign score of 100 and proceed to item 20. If no, assign score of 0 and proceed to item 14.	0 (10	1	100	100
Pat	hway characteristics				
14.	Depth to seasonal high groundwater from base of waste or contaminated zone	0 1 2 3	9		
15.	Permeability of the unsaturated zone	0 1 2 3	•		27 15
					13
16.	Infiltration potential	0 1 2 3	5		15
17.	Sum of items 14 through 15				13
18.	Normalized score (multiply item 17 x 100/57)				57
19.	Potential for discrete features in the unsaturated zone to "short-circuit" the pathway to the water table				
		0 1 2 3	5		15
0.	Adjusted pathways score. If item 13 is 100, enter 10 If item 13 is 0, enter sum of items 18 and 19. If sum exceeds 100, enter 100.	0.			
1.	Waste containment effectiveness factor (Table 5)		-	100	
	Final score for groundwater pathways (multiply item 20	xitem	- 21)	1.0	

COMMENTS ON GROUNDWATER PATHWAYS

Site i	identification: BCSP	· 		
CONTAR	MINANT HAZARD SURFACE WATER			
contar	ntaminants have been detected in surface water (score of 100 in item 1) ninants have not been detected (score of 0 in item 1), complete items intaminants, as appropriate.			
		Score (circle one)	Result	Logarithm (base 10)
23.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	one,		-
24.	Human health hazard score	0 1 2 4 6		1
25.	Normalized human health hazard score (multiply item 24 x 100/6)			
26.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)			
27.	Ecological hazard score	0 1 2 3		•
28.	Normalized ecological hazard score (multiply item 27 x 100/6)	4 5 6		•
 29.	Maximum human health hazard index	0 123 4 5 6 7 8 9	Conta	See list of ground- minant: water contaminan
30.	Normalized human health hazard score (multiply item 29 x 100/9)		22.222	See list of ground-
31.	Maximum ecological hazard index	0 1 246	Conta	minant: <u>water contam</u> inar
32.	Normalized ecological hazard score (multiply item 31 x 100/6)		66.667	
NTAP	INANT HAZARD GROUNDWATER			
ve I	ntaminants have been detected in groundwater (score of 100 in item 13), not been detected (score of 0 in item 13), complete items 39 through 42 minants, as appropriate.	-		-
33.	Sum of human health hazard quotients (from column 10 of Hazard Worksheet)	5	64 <u>45.1</u> 70	03 4.7516
34.	Human health hazard score	0 1 2 4 6)	
35.	Normalized human health hazard score (multiply item 34 x 100/6)		100	
36.	Sum of ecological hazard quotients (enter the larger of the sums of column 11 or 12 of Hazard Worksheet)		34 <u>.0480</u>	. 1.5321
37.	Ecological hazard score	$\begin{pmatrix} 0 & 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix}$		
38.	Normalized ecological hazard score (multiply item 37 x 100/6)	٠, ٠	<u>66.667</u>	
39.	Maximum human health hazard index	0 1 2 3 4		

40. Normalized human health hazard score (multiply item 39 x 100/9)

42. Normalized ecological hazard score (multiply item 41 x 100/6)

41. Maximum ecological hazard index

5 6 7 8 9

0 1 2 4 6

Contaminant:

Contaminant:

Site identification: BCSP

	•	C	** ** * * * * * * * * * * * * * * * * *		
		Score (circle one)	Multiplier	Product (score x mult.)	Max. score
	Population that obtains drinking water from potentially affected surface water body(ies) within 3 miles (4.8 km) downstream	0 1 2 3	3	0	9
•	Water use of nearest surface water body(ies)	0 123	3	6	9
i.	Population within 1000 ft (305 m) of the site	0 1 2 3	1	3	3
· .	Distance to the nearest installation boundary	0 1 2 3	1	3	3
	Land use and/or zoning within 1 mile (1.6 km) of the site	0 1 2(3)	1	3	3
•	Sum of items 43 through 47			_15	27
	Final score for human health receptors on surface water pathways (multiply item 48 x 100/27)		<u>55.55</u> 6		
OL	OGICAL RECEPTORS SURFACE WATER PATHWAYS				
•	Importance/sensitivity of biota/habitats in potentially affected surface water bodies nearest the site	0 1 2 3	5	5	15
•	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	0	3
	Sum of items 50 and 51			51	18
	Final score for ecological receptors on surface water pathways (multiply item 52 x 100/18)			27.778	

COMMENTS ON SURFACE WATER RECEPTORS

Site identification: BCSP

HUMAN HE	ALTH RECEPTORS GROUNDWATER PATHWAY			
		Score (circle one)	Multiplier	Product Max. (score x score mult.)
54.	Estimated mean groundwater travel time from current waste location to nearest downgradient water supply well(s)	①1 2 3	9	
55.	Estimated mean groundwater travel time from current waste location to any downgradient surface water body that supplies water for domestic use or for food chain agriculture	0 1 2 3	- 5	015
56.	Groundwater use of the uppermost aquifer	①1 2 3	4	0 12
57.	Population potentially at risk from groundwater contamination	06 9 12 18 24 27 36	1	<u> </u>
58.	Population within 1000 ft (305 m) of the site	0 1 2(3)	1	3 з
59.	Distance to the nearest installation boundary	0 1 2(3)	1	33
60.	Sum of items 54 through 59			<u>6</u> 96
61.	Final score for human health receptors on groundwater pathways (multiply item 60 x 100/96)			6.25
ECOLOGICA	L RECEPTORS GROUNDWATER PATEWAYS			
62.	Estimated mean groundwater travel time from current waste location to any downgradient habitat or natural area	0 1 2(3)	3	<u>9</u> 9
63.	Importance/sensitivity of downgradient biota/habitats that are confirmed or suspected groundwater discharge points	0 2 3	3	
64.	Presence of "critical environments" within 1 mile (1.6 km) of the site	3	1	3
65.	Sum of items 62 through 64			<u>12</u> 21
66.	Final score for ecological receptors on groundwater pathways (multiply item $65 \times 100/21$)			<u>57.14</u> 3

COMMENTS ON GROUNDWATER RECEPTORS (attach additional pages if needed)

SCORING SUMMARY SHEET

		Pathways score	2	Contaminant hazard score		deceptors sca	ore		Overall score
67.	Surface water/human health scores	(47.917 item 12	x	$\frac{22.222}{\text{item } 25/30}$	x	55.556 item 49)	/10,000 =	5.916
68.	Surface water/ecological scores	$\begin{array}{c} (47.917 \\ \hline \text{item } 12 \end{array}$	x .	66.667 item 28/32	x	27.778 item 53)	/10,000 =	8.874
69.	Groundwater/human health scores	(100 item 22	x	100 item 35/40	x	6.25 item 61)	/10,000 =	6.25
70.	Groundwater/ecological scores	(100 item 22	x	66.667	x	57.143)	/10,000 =	38.10

OVERALL SITE SCORE:

• 71.
$$(\frac{5.916}{\text{item } 67})^2 \times 5 + (\frac{8.874}{\text{item } 68})^2 + (\frac{6.25}{\text{item } 69})^2 \times 5 + (\frac{38.10}{\text{item } 70})^2 = \frac{1900.666}{\text{item } 70}$$

72. Overall site score =
$$1900.666$$
 / 3.464 = 12.586 = 13

TABLE P-14
BCSP HAZARD WORKSHEET
IRP STAGE 2
SELFRIDGE, MICHIGAN

CONTAMINANT NAME BCSP GROUNDWATER CONTAMINANT HAZARD	CONCENTRATION (ug/L)	3 HEALTH EFFECTS BENCHMARK (ug/day)	4 AQUATIC EFFECTS BENCHMARK (UG/L)	S TERRESTRIAL EFFECTS BENCHMARK (ug/L)	BIOACCUMULATION FACTOR (L/KG)
ARSENIC	a a	0.04	360	100	280
BENZENE	700	30	5300		32
BIS(2-ETHYLHEXYL)PHTHALATE	15	10000	160		310
BUTYLBENZYLPHTHALATE		10000	1700		099
NOT BOXED	2	710 0	9.5 7.		2000
COPPER	09	2000	9.2	200	210
1,4- DICHLOROBENZENE	•	760	1120		069
1,3- DICHLOROBENZENE		097	2850		240
1,1- DICHLOROETHANE		15	118000		14
TRANS-1,2- DICHLOROETHENE		2.6	135000		7.2
DIETHYLPHIHAIATE		10000	52100		120
2,4- DIMETHYLPHENOL		9.6	2120		200
	2	10000	940		68
ETHYLBENZENE		2200	32000		290
IRON	58	150	007		100
LEAU	00.70	00L	34	•	300
METHY FUE CHICATOR	07 4 7	67.n '	056 00501	007	004
NAPHTHALENE		280	2300		7.20
NICKEL	88	260	1100	200	100
4- NITROPHENOL		0.7	8280		
		280	55	37300	780
PET HYDRO (ASSUME JP-4) PET HYDRO (ASSUME MOTOR OIL)		13	28800		120
		0089	10000		1.7
PYRENE	2	9			0.8
SILVER		20	1.2		2
I,1,2,2- TETRACHLOROETHANE		10	9320		6.7
TETRACHLOROETHENE		7 6	5280		77
TOTCHIODOFTHENE		* C	00057		3
TO I CHI DODEI INDOMETHANE		7.	11000		72
VINYL CHLORIDE		10001	381000		7.7
XYLENES		16	13500		320
ZINC	96	10000	180	2000	1000
7 = (col 2) × (2 L/ 8 = (col 2) × (col 9 = (col 7) + (col 10 = (col 9) / (col 11 = (col 2) / (col	(0.0065 kg/day)				
Col 12 = (col 2) / (col 5)					

TABLE P-14 (continued) BCSP HAZARD WORKSHEET IRP STAGE 2 SELFRIDGE, MICHIGAN

12 TERRESTRIAL HAZARD QUOTIENT	0.0000	_	0000		_				0000.0					0.0000		-				0.0000	0.000	0.000	0.000	0000			0.0000	0,000					14.1996	
11 AQUATIC HAZARD QUOTIENT	0.0000	0.000	0.0938	19.6970	0,000	6.5217	0000	0.000	0000	0.000	0.000	0.000	0.0021	0.0000	0000	6,9143	0.000	0.000	0.0800	0.000	0,000	0.000	0.000	0.000	0.000	0.0000	0.0000	0,000	0000	0000-0	0.000	0,5333	34.0480	
10 HEALTH HAZARD QUOTIENT	0.0000	0.000	0,0060	1.5113	0.000	0.1010	0.000	0000	0000	0.000	0.000	0000	0.0005	1 0267	0.0000	44528,0000	0.000	0.000	0.8969	0.0000	0.000	0.0000	000000	0.6684	0.000	0.0000	0.0000	0000	0000.0	0.000	000000	0.0816	56445.1703 4.7516	
9 TOTAL INTAKE (ug/day)	0.0000	0.0000	0.2250	30,2250	0000.0	201,9000	0.0000	0.000	0.000	0,000	0000.0	0.0000	0/51.5	153 7000	0000	11132.0000	0000.0	0000.0	233.2000	0.000	0,000	0.000	00000	4.0104	0.000	0.0000	0.000	0000	0000	0.000	0.000	816.0000	Log of sums =	
8 FOOD INTAKE (ug/day)	0.0000	0000.0	0.0000	4.2250	0000.0	81.9000	00000	0.000	0.000	0.0000	0.000	0.0000	0.1570	37, 7000	0.000	6292.0000	0.000	0.000	57.2000	0.000	0000	0.000	0,000	0.0104	0.0000	0.0000	0.000	00000	0.000	0.000	0.000	624.0000	<u>स्त्र च</u>	
7 DRINKING WATER INTAKE (Ug/day)	0 1764	0 6	00	56	0	120	0	> C	• •	0	0	0 .	a C	116	0	0787	0	0	176	-	-		0	4	0	0		~ C	0	0	0	192	(0.0065 kg/day)	
1 CONTAMINANT NAME BCSP GROUNDWATER CONTAMINANT HAZARD	ARSENIC BARIUM	BENZENE OTS/2_ETUVIUSVVI\BUTUALATS	BUTYLBENZYLPHTHALATE	CADMIUM	CHROMIUM	COPPER	,4- DICHLOROBENZENE	, J. DICHLOROBENZEME , J. DICHLOROFTHANF	,2- DICHLOROETHENE	DICHLOROFLUOROMETHANE		Z,4- DIMETHYLPHENOL	ETHYL BENZENE	IRON	LEAD	MANGANESE	METHYLENE CHLORIDE	NAPHTHALENE	NICKEL	4- NIIKOPHENOL PENTACHI OBODHENOI	PET HYDRO (ASSUME JP-4)		PHENOL	PYRENE		Z- LEIKACHLOROETHANE	TOTIENE	TRICHIOROFTHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	XYLENES	ZINC	7 = (col 2) × 8 = (col 2) × 9 = (col 2) + 10 = (col 9) / 11 = (col 2) /	Col 12 = (col 2) / (col 5)
BCSP GR						•	- ·		TRANS-1,2- C	-	•	7													•	-7'7'1'								



APPENDIX Q

CORRESPONDENCE

STATE OF MICHIGAN

NATURAL RESOURCES COMMISSION THOMAS J. ANDERSON MARLENE J. FLUHARTY KERRY KAMMER O. STEWART MYERS DAVID D. OLSON RAYMOND POUPORE



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING BOX 30028 LANSING, MI 48909

GORDON E. GUYER, Director

December 8, 1988

Mr. Robert H. Gilbertsen Assistant Project Engineer WESTON 100 Corporate North, Suite 101 Route 22 and Lakeside Drive Bannockburn, Illinois 60015

Dear Mr. Gilbertsen:

Your request for endangered species information was checked against known localities for special natural features recorded in the Michigan Natural Features Inventory (MNFI) database, which is part of the newly established Natural Resource Heritage Program of the Department of Natural Resources, Wildlife Division. The MNFI is an ongoing, continuously updated information base which is the most comprehensive single source of existing data on Michigan's endangered, threatened, or otherwise significant plant and animal species, natural plant communities, and other natural features.

There are no known occurrences of Federal- or State-listed endangered or threatened species at the locations(s) specified: Selfridge Air National Guard Base.

This database, however, cannot provide a definitive statement on the presence, absence, or condition of special natural features in any given locality, since most sites have not been specifically or thoroughly surveyed for the occurrence of special features. Therefore, the information provided above should not be regarded as a complete statement on the occurrence of special natural features at the sites(s) in question.

Thank you for your advance coordination in addressing the protection of Michigan's Natural Resource Heritage.

ECETAFI

DEC 1 2 1938

ROY F. WESTON, INC.

Sincerely,

Thomas F. Weise

Endangered Species Coordinator

Wildlife Division

517-373-1263



100 CORPORATE NORTH, SUITE 101 ROUTE 22 AND LAKESIDE DRIVE BANNOCKBURN, ILLINOIS 60015 (312) 295-6020

FILE COPY

13 October 1988

Mr. Tom Weise MDNR Wildlife Division Box 30028 Lansing, Michigan 48909

W.O.# 0628-14-02

Subject: Critical Environments Around

Selfridge ANGB

Dear Mr. Weise:

As we discussed on the phone on 12 October 1988, WESTON is working for the Air Force on a Superfund-type environmental cleanup at the Selfridge Air National Guard Base on the shore of Lake St. Clair. The Base contains 8 individual sites that may require cleanup.

One of the items WESTON is investigating is whether the sites may presently threaten critical habitats. Another item of concern is whether future remediation activities would threaten critical habitats. Remediation activities typically involve earth moving, well drilling, and truck traffic. The Air Force defines critical habitats as follows:

- (1) lands or waters specifically recognized or managed by federal, state, or local government agencies or private organizations as rare, unique, unusually sensitive, or important natural resources (including designated critical habitat for endangered species, wilderness areas, nature preserves, or wildlife sanctuaries, but not parks established for historic preservation or recreation; and,
- (2) habitat utilized by any federally designated endangered species on a permanent or seasonal basis.

. Our concern includes any critical habitat within 1 mile (1.6 kilometers) of the Base.

C0807



Mr. Tom Weise

-2-

13 October 1988

It is our understanding from our phone conversation that no critical habitats are affected. Please review the enclosed maps and mail your conclusion to us.

Very truly yours,

ROY F. WESTON, INC.

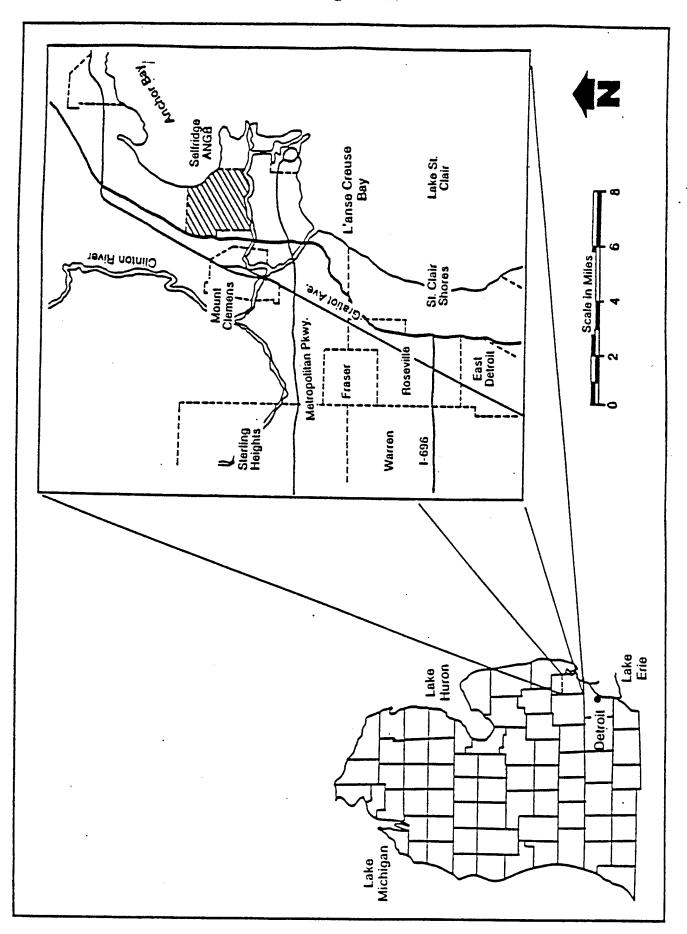
Robert H. Gilbertsen

Assistant Project Engineer

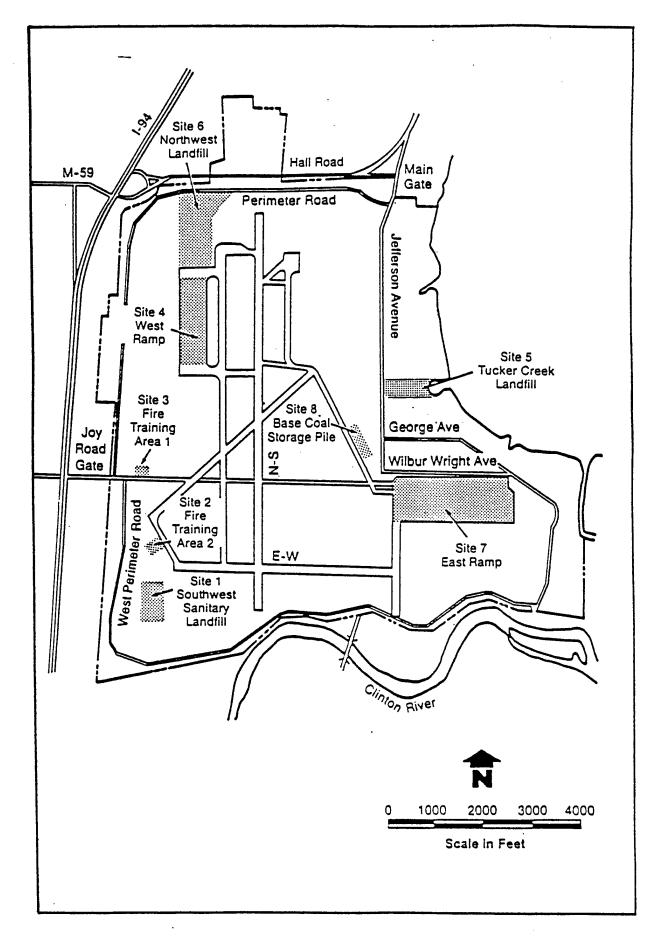
RHG/kvh

Attachments

C0807



Į · J





100 CORPORATE NORTH, SUITE 101 ROUTE 22 AND LAKESIDE DRIVE BANNOCKBURN, ILLINOIS 60015 (312) 295-6020

10 August 1988

Mr. Andy Hogarth Michigan DNR 530 West Allegan Lansing, Michigan 48933

W.O. 0628-14-02

SUBJECT: Second request for ARAR's for Selfridge Base

Dear Mr. Hogarth:

As we discussed over the telephone on 8 August 1988, Ken Burda has told WESTON that the Environmental Response Division would be our best contact with MDNR. With Mr. Burda's recommendation in mind, WESTON is resubmitting a set of questions from 21 July 1988 that were not previously answered. We look forward to receiving your answers and to the opportunity of working with you in the coming months.

Very truly yours,

ROY F. WESTON, INC.

RHG/ejf

Enclosure

Robert H. Gilbertsen Assistant Engineer



100 CORPORATE NORTH, SUITE 101 ROUTE 22 AND LAKESIDE DRIVE BANNOCKBURN, ILLINOIS 60015 (312) 295-6020

FILE COPY

21 July 1988

Mr. Ken Burda
Hazardous Waste Permit Chief
Michigan Department of Natural Resources
530 West Allegan
Lansing, MI 48933 W.O. 0628-14-02

Subject: Michigan ARAR's for Selfridge ANGB cleanup

Dear Mr. Burda:

Thank you for your prompt response to WESTON's preliminary request for Michigan ARAR's pertaining to the cleanup project at Selfridge Air National Guard Base. The information you provided will assist greatly in development of remedial alternatives.

Now that WESTON has some general regulatory information, we would like to learn more about four specific points.

1. CLEANUP CRITERIA FOR SOIL AND GROUNDWATER

Does MDNR issue chemical-specific cleanup criteria for chemical contaminants in soil and groundwater? If so, are these criteria developed for individual sites, or are there state-wide standards you can send us? Chemical-specific criteria will strongly affect the extent of cleanup and the selection of remedies.

2. WATER RESOURCES COMMISSION

Please clarify the role of the Michigan Water Resources Commission with respect to the cleanup. Should WESTON consult with the Commission as well as MDNR, or can MDNR remain our sole point of contact with the State of Michigan?

3. SITE ASSESSMENT SYSTEM (SAS)

WESTON intends to use the DOD's Defense Priority Model (DPM) rather than Michigan's SAS to score and rank the hazards present at the base. Like SAS, the DPM is an extension of USEPA's Hazard Ranking System (HRS).

Mr. Ken Burda

-2-

21 July 1988

4. ADDITIONAL DOCUMENTS

Can MDNR provide the following additional documents?

- A. Underground Storage Tank Act (Act 423, P.A. 1984)
- B. Applicable rules promulgated by the Water Re- sources Commission (as opposed to legislation granting rule-making authority to the Commission) in the areas of waste water, groundwater, and water quality standards.
- C. Michigan Environmental Response Act (Act 307, P.A. 1982)

Feel free to contact WESTON if you have any questions about this request or any other matters regarding the cleanup program at Selfridge.

Very truly yours,

ROY F. WESTON, INC.

Robert H. Gilbertsen, E.I.T.

Assistant Project Engineer

Edward A. Need, P.G.

Project Manager

RHG/EAN/ef

COMMUNICATION RECORD

(C) C.PN	Subject: MI ARAR'S
Name: KEN BURDA	Delegated/Route to: ED NEED
Company: MDN R	
Address: HAZARDOUS WAS	13
	Due/Response Date: From: 808 G
Phone: 517-373-0530	
Sequence Follow-up & Detect /1 Seid Subject /1 Seid	Response/They Said
7/14 MICHIGAN ARA	
-> REQUEST	ivan? YES!
JULY I RECE	va). YES.
-> ABLE TO	\\
HOLP?	yes!
-> WHEN	
RESPOND	
	THEY'RE PULLING
	response
	together now.
X 0N 7/22	RHG WILL CALL
BURDA AG	AMIN IF ARARS
HAVEN'T	ARRIVED -
	•
2201-2202 REV. 7-87	Pryroad in USA p1987



100 CORPORATE NORTH, SUITE 101 ROUTE 22 AND LAKESIDE DRIVE BANNOCKBURN, ILLINOIS 60015 (312) 295-6020

6 July 1988

Mr. Basil Constantelos
USEPA Waste Management Division, Mail Code 5H-12
230 South Dearborn Street
Chicago, IL 60604 W.O. 0628-14-02

Subject: Request for Federal ARARs

Dear Mr. Constantelos:

WESTON is conducting a preliminary feasibility study for remediation of eight waste sites at Selfridge Air National Guard Base near Mr. Clemens, Michigan. Although none of the sites is on the Superfund list, the feasibility study will follow the standard Superfund format.

An important element of the feasibility study is the section on Applicable or Relevant and Appropriate Regulations (ARARS). WESTON requests that USEPA identify and provide copies of Federal waste site cleanup ARARS that apply to landfills, fuel spills, or heavy metal contamination. We require action-specific, chemical-specific, and location-specific ARARS. For each ARAR covered in your response, please provide the regulation's title, the citation, a brief summary of areas of applicability, and a copy of the complete text.

WESTON is pleased to take part in this waste cleanup in the State of Michigan. We request your prompt reply with the ARARS, and we stand ready to answer any questions you might have about the project.

Very truly yours,

ROY F. WESTON, INC.

Robert H. Gilbertsen

Assistant Project Engineer

RHG/iec



100 CORPORATE NORTH, SUITE 101 ROUTE 22 AND LAKESIDE DRIVE BANNOCKBURN, ILLINOIS 60015 (312) 295-6020

1 July 1988

Mr. Ken Burda
Hazardous Waste Permit Chief
Michigan Department of Natural Resources
530 West Allegan
Lansing, MI 48933 W.O. 0628-14-02

Subject: Request for Michigan ARARs

Dear Mr. Burda:

WESTON is conducting a preliminary feasibility study for remediation of eight waste sites at Selfridge Air National Guard Base near Mt. Clemens, Michigan. Although none of the sites is on the Superfund list, the feasibility study will follow the standard Superfund format.

An important element of the feasibility study is the section on Applicable or Relevant and Appropriate Regulations (ARARS). WESTON requests that Michigan DNR identify and provide copies of Michigan's waste site cleanup ARARS that apply to landfills, fuel spills, or heavy metal contamination. We require action-specific, chemical-specific, and location-specific ARARS. To assist you, we are providing a list of 12 Michigan Action-Specific ARARS we have already identified but not researched. For each ARAR covered in your response, please provide the regulation's title, the citation, a brief summary of areas of applicability, and a copy of the complete text.

WESTON is pleased to take part in this waste cleanup in the State of Michigan. We request your prompt reply with the ARARS, and we stand ready to answer any questions you might have about the project.

Very truly yours,

ROY F. WESTON, INC.

Robert H. Gilbertsen

Assistant Project Engineer

RHG:amp Enclosure WESTER

Action-Specific ARARs Checklist, Selfridge ANGB, Michigan Requirements

	Appl	Does This Requirement ply to Site Condition	Apply to Site Conditions?	
l		Yes	No	Explanations
_	. Hazardous Haste Hanagement Act (Act No. 64, P.A. 1979)	· ×		Consistent with RCRA, Applicable to all potential alternatives.
2.			×	Requires registration and permitting of underground storage tanks.
ei.	. Air Pollution Control Commission General Rules (R 336 Parts 2,3,6,9)	×		Applicable to soil removal activities and potential air stripping.
4.	. Hichigan Solid Waste Management Act (Act No. 641, P.A. 1978)	×	•	Applicable to site landfills.
ς.	. HOUR - Water Resources Commission (Act 245, P.A., 1929, as amended) R 323, Parts 9,21. Wastewater Reporting and Surveillance fees Rules, and Wastewater Discharge Permits (HMA HPDES)	×		This regulation addressed the removal of liquid industrial waste and outlines requirements for licenses, recordkeeping and transportation
9	Soil and Erosion Control (Act No. 347, P.A. 1972)	×		Applicable to soil removal activition
7.	Liquid Industrial Waste Disposal Act (Act No. 136, P.A. 1984)		× .	This regulation addresses the removal of liquid industrial waste and out-lines requirements for licenses.
8	MDNR - Water Resources Commission (Act 245, P.A. 1929, as amended) R 323, Part 22, Groundwater Discharge Rules	×		Applicable to alternatives that involve discharges to oroundester
6		× .		Applicable to alternatives that involve discharges to surface water.
· :		×		Requires risk ässessments for hazardous waste sites.
<u>:</u>	Great Lakes Hater Quality Agreement (22 Nov. 1978)			Regulates water quality between Canada and the United States.